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OM nucleic - nucleic search, using sw model

Run on: September 14, 2004, 01:18:23 ; Search time 109.667 Seconds
(without alignments)
7595.574 Million cell updates/sec

Title: US-09-845-416-6_COPY_1500_3000
Perfect score: 1501
Sequence: 1 agaagatctagaacaagaac.....tcaaccacgagactcaaca 1501

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents_NA:*
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq:*
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6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	1182.6	78.8	5952	4	US-09-687-875A-1	Sequence 1, Appli
2	1182.6	78.8	13977	4	US-09-484-970B-60	Sequence 60, Appli
C 3	1004	66.9	19307	3	US-08-836-022A-10	Sequence 10, Appli
C 4	1004	66.9	19307	3	US-09-427-048A-10	Sequence 10, Appli
5	397	26.4	6045	4	US-09-091-501B-7	Sequence 7, Appli
6	397	26.4	10320	4	US-09-091-501B-9	Sequence 9, Appli
7	311.8	20.8	3915	4	US-09-976-594-93	Sequence 93, Appli
8	69.8	4.7	200	4	US-09-091-501B-5	Sequence 5, Appli
9	69	4.6	200	4	US-09-091-501B-4	Sequence 4, Appli
10	65	4.3	200	4	US-09-091-501B-6	Sequence 6, Appli
11	63.6	4.2	238	4	US-09-687-875A-13	Sequence 13, Appli
C 12	53.4	3.6	7218	1	US-08-232-463-14	Sequence 14, Appli
13	42.8	2.9	1690	4	US-09-620-312D-69	Sequence 69, Appli
14	42.8	2.9	7812	3	US-09-368-590-1	Sequence 1, Appli
15	38.6	2.6	1751	4	US-09-620-312D-847	Sequence 847, App
16	38.6	2.6	1995	1	US-08-425-069-3	Sequence 3, Appli
17	38.6	2.6	1995	2	US-08-317-844B-3	Sequence 3, Appli
18	38.4	2.6	7672	4	US-09-220-132-24	Sequence 24, Appli
19	35	2.3	2169	4	US-09-434-408-3	Sequence 3, Appli
20	34.8	2.3	246240	2	US-08-724-394A-20	Sequence 20, Appli
21	34.8	2.3	246240	2	US-08-724-394A-21	Sequence 21, Appli
22	34.8	2.3	246240	2	US-08-724-394A-22	Sequence 22, Appli
C 23	34.8	2.3	1830121	4	US-09-557-884-1	Sequence 1, Appli
C 24	34.8	2.3	1830121	4	US-09-643-990A-1	Sequence 1, Appli
C 25	34.6	2.3	2277	1	US-08-676-967-5	Sequence 5, Appli
C 26	34.6	2.3	2277	1	US-08-676-974-5	Sequence 5, Appli
C 27	34.6	2.3	2277	2	US-09-098-487-5	Sequence 5, Appli

28	34.4	2.3	1047	4	US-09-671-950-1	Sequence 1, Appli
29	34.4	2.3	1047	4	US-09-671-950-3	Sequence 3, Appli
30	34.4	2.3	1047	4	US-09-671-950-5	Sequence 5, Appli
31	34.4	2.3	1047	4	US-09-671-950-7	Sequence 7, Appli
32	34.4	2.3	1047	4	US-09-671-950-9	Sequence 9, Appli
33	34.4	2.3	1047	4	US-09-671-950-11	Sequence 11, Appli
34	34.4	2.3	1047	4	US-09-671-950-13	Sequence 13, Appli
35	34.2	2.3	750	4	US-08-961-527-370	Sequence 370, App
36	34.2	2.3	32768	4	US-08-961-527-71	Sequence 71, Appli
37	34	2.3	648	4	US-09-252-991A-10033	Sequence 10033, A
C 38	34	2.3	762	4	US-09-252-991A-9821	Sequence 9821, Ap
39	34	2.3	1644	4	US-09-252-991A-10161	Sequence 10161, A
C 40	34	2.3	2235	3	US-09-153-804-2	Sequence 2, Appli
41	33.8	2.3	1603	1	US-08-625-209A-1	Sequence 1, Appli
42	33.8	2.3	3489	2	US-08-728-323A-1	Sequence 1, Appli
43	33.8	2.3	3489	4	US-09-298-568-1	Sequence 1, Appli
44	33.8	2.3	3489	4	US-09-410-399-1	Sequence 1, Appli
C 45	33.8	2.3	32207	2	US-08-770-379-20	Sequence 20, Appli

ALIGNMENTS

RESULT 1
US-09-687-875A-1
; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Paul
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPLICED PEI
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687,875A
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158,868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
US-09-687-875A-1

Query Match 78.8%; Score 1182.6; DB 4; Length 5952;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1185; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY	313	GGTACCTACTCATAGATTACTGCAACAGTTTCCCGCTGGACCTGGAAAAGTTTCTTGCCTG	372
DB	2946	GGAAGAACTCATAGATTACTGCAACAGTTTCCCGCTGGACCTGGAAAAGTTTCTTGCCTG	3005
QY	373	GCCTACAGAAGCTGAAACAACCTGCAATGTCTCTACAGATGCTACCCGTAAGGAAAGGCT	432
DB	3006	GCCTACAGAAGCTGAAACAACCTGCAATGTCTCTACAGATGCTACCCGTAAGGAAAGGCT	3065
QY	433	CCTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAACAATGGCAAGACCTCCAAGGTGA	492
DB	3066	CCTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAACAATGGCAAGACCTCCAAGGTGA	3125
QY	493	AATTGAAGCTCACACAGATGTTTATCACAACTGGATGAAAACAGCCAAAATCCTGAG	552
DB	3126	AATTGAAGCTCACACAGATGTTTATCACAACTGGATGAAAACAGCCAAAATCCTGAG	3185
QY	553	ATCCCTGGAAGGTTCCGATGATGCAGTCTCTGTTACAAAGACGTTTGGATAACATGAAC	612

Db 3186 ATCCCTGGAAGGTTCCGATGATGCAGTCCCTGTTACAAAGACGTTTGGATAACATGAACCTT 3245
QY 613 CAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAGCCAGTTC 672
Db 3246 CAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAGCCAGTTC 3305
QY 673 TGACCAAGTGAAGCGTCTGCACCTTTCTCTGAGGAACTTCTGGTGGCTACAGCTGAA 732
Db 3306 TGACCAAGTGAAGCGTCTGCACCTTTCTCTGAGGAACTTCTGGTGGCTACAGCTGAA 3365
QY 733 AGATGATGAATTAAGCCGGCAGGCACCTATTGAGGCGGACTTTCCAGCAGTTCAGAAAGCA 792
Db 3366 AGATGATGAATTAAGCCGGCAGGCACCTATTGAGGCGGACTTTCCAGCAGTTCAGAAAGCA 3425
QY 793 GAACGATGTACATAGGCGCTTCAAGAGGGGAATTGAAAACTAAAGAACTGTAAATCATGAG 852
Db 3426 GAACGATGTACATAGGCGCTTCAAGAGGGGAATTGAAAACTAAAGAACTGTAAATCATGAG 3485
QY 853 TACTCTTGAGACTGTACGAATATTCTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACT 912
Db 3486 TACTCTTGAGACTGTACGAATATTCTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACT 3545
QY 913 CTACCAAGAGCCCGAGAGAGTGCCTCTCTGAGGAGAGCCCGCAAGTGTCACTCGGCTTCT 972
Db 3546 CTACCAAGAGCCCGAGAGAGTGCCTCTCTGAGGAGAGCCCGCAAGTGTCACTCGGCTTCT 3605
QY 973 ACGAAAGCAGGCTGAGAGAGTGCCTCTCTGAGGAGAGCCCGCAAGTGTCACTCGGCTTCT 1032
Db 3606 ACGAAAGCAGGCTGAGAGAGTGCCTCTCTGAGGAGAGCCCGCAAGTGTCACTCGGCTTCT 3665
QY 1033 CTGGCAGAGAAAAATAGATGAGACCTTGAAGACTCCAGGAACCTTCAAGAGGCCACCGGA 1092
Db 3666 CTGGCAGAGAAAAATAGATGAGACCTTGAAGACTCCAGGAACCTTCAAGAGGCCACCGGA 3725
QY 1093 TGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCTTGGCAGCCCGTGGG 1152
Db 3726 TGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCTTGGCAGCCCGTGGG 3785
QY 1153 CGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGGACTTCCGAGGAGA 1212
Db 3786 CGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGGACTTCCGAGGAGA 3845
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Db 3846 AATTGGCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGTCTGCGCAGCTTACCAC 3905
QY 1273 TTTGGGCATTGAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAAACACCATGATG 1332
Db 3906 TTTGGGCATTGAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAAACACCATGATG 3965
QY 1333 GAAGCTTCTGAGGTGGCGTTCGAGGACCGAGTCAGGCAGCTGATGAAGCCACAGGGA 1392
Db 3966 GAAGCTTCTGAGGTGGCGTTCGAGGACCGAGTCAGGCAGCTGATGAAGCCACAGGGA 4025
QY 1393 CTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTGTCTCCAGGTCCCTGGGAGAGAGC 1452
Db 4026 CTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTGTCTCCAGGTCCCTGGGAGAGAGC 4085
QY 1453 CATCTGCCAAACAAAGTGCCTTACTATATCAACACAGAGACTCAAAACA 1501
Db 4086 CATCTGCCAAACAAAGTGCCTTACTATATCAACACAGAGACTCAAAACA 4134

RESULT 2

US-09-484-970B-60
; Sequence 60, Application US/09484970B
; Patent No. 6426186
; GENERAL INFORMATION:
; APPLICANT: Jones, Karen A.
; APPLICANT: Volkmuth, Wayne
; APPLICANT: Walker, Michael G.
; TITLE OF INVENTION: BONE REMODELING GENES
; FILE REFERENCE: PB-0014 US

; CURRENT APPLICATION NUMBER: US/09/484,970B
; CURRENT FILING DATE: 2000-01-18
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: PERL Program
; SEQ ID NO 60
; LENGTH: 13977
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6426186 229357.11CB1
; NAME/KEY: unsure
; LOCATION: 11721-11761, 12294, 13969
; OTHER INFORMATION: a, t, c, g, or other
US-09-484-970B-60

Query Match 78.8%; Score 1182.6; DB 4; Length 13977;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1185; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 313 GGTACCTACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAGTTCCTTGCCTG 372
Db 8260 GGAAGAACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAGTTCCTTGCCTG 8319
QY 373 GCTTACAGAAAGCTGAAACAACTGCCAATGCTCTACAGGATGCTACCGTAAGGAAAGCT 432
Db 8320 GCTTACAGAAAGCTGAAACAACTGCCAATGCTCTACAGGATGCTACCGTAAGGAAAGCT 8379
QY 433 CCTAGAAGACTCCAAAGGAGTAAAGAGCTGATGAAACAAATGGCAAGACCTCCAAGGTGA 492
Db 8380 CCTAGAAGACTCCAAAGGAGTAAAGAGCTGATGAAACAAATGGCAAGACCTCCAAGGTGA 8439
QY 493 AATTGAAGCTCACACAGATGTTTATCACAACTGGATGAAACAGCCCAAAAAATCCTGAG 552
Db 8440 AATTGAAGCTCACACAGATGTTTATCACAACTGGATGAAACAGCCCAAAAAATCCTGAG 8499
QY 553 ATCCCTGGAAGGTTCCGATGATGCAGTCCCTGTTACAAAGACGTTTGGATAACATGAACCT 612
Db 8500 ATCCCTGGAAGGTTCCGATGATGCAGTCCCTGTTACAAAGACGTTTGGATAACATGAACCT 8559
QY 613 CAAGTGGAGTGAACCTTCGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAGCCAGTTC 672
Db 8560 CAAGTGGAGTGAACCTTCGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAGCCAGTTC 8619
QY 673 TGACCAAGTGAAGCGTCTGCACCTTTCTCTGAGGAACTTCTGTTGGCTACAGCTGAA 732
Db 8620 TGACCAAGTGAAGCGTCTGCACCTTTCTCTGAGGAACTTCTGTTGGCTACAGCTGAA 8679
QY 733 AGATGATGAATTAAGCCGGCAGGCACCTATTGAGGCGGACTTTCCAGCAGTTCAGAAAGCA 792
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QY 793 GAACGATGTACATAGGCGCTTCAAGAGGGGAATTGAAAACTAAAGAACTGTAAATCATGAG 852
Db 8740 GAACGATGTACATAGGCGCTTCAAGAGGGGAATTGAAAACTAAAGAACTGTAAATCATGAG 8799
QY 853 TACTCTTGAGACTGTACGAATATTCTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACT 912
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QY 1093 TGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCTTGGCAGCCCGTGGG 1152

Db 9040 TGAGCTGGACCTCAAGCTGGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGG 9099
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QY 1213 AATTGGCCCTCTGAAAGAGAACGTGAGGCCACGTCATGACCTTGCTCGCCAGCTTACCAC 1272
Db 9160 AATTGGCCCTCTGAAAGAGAACGTGAGGCCACGTCATGACCTTGCTCGCCAGCTTACCAC 9219
QY 1273 TTTGGGCATTGACCTCTCACCGGTATAAACCCTCAGCACTCTGGAAGACCTGAAACACCATG 1332
Db 9220 TTTGGGCATTGACCTCTCACCGGTATAAACCCTCAGCACTCTGGAAGACCTGAAACACCATG 9279
QY 1333 GAAGCTTCTGAGGTGGCCGTGAGGACCGAGTCAGGCAGCTGCATGAAGCCACAGGGA 1392
Db 9280 GAAGCTTCTGAGGTGGCCGTGAGGACCGAGTCAGGCAGCTGCATGAAGCCACAGGGA 9339
QY 1393 CTTTGGTCCAGCATCTCAGCACTTCTTCCACGTCTGTCCAGGGTCCCTGGGAGAGAGC 1452
Db 9340 CTTTGGTCCAGCATCTCAGCACTTCTTCCACGTCTGTCCAGGGTCCCTGGGAGAGAGC 9399
QY 1453 CATCTCGCCAAACAAAGTGCCCTACTATATCAACACGAGACTCAAACA 1501
Db 9400 CATCTCGCCAAACAAAGTGCCCTACTATATCAACACGAGACTCAAACA 9448

RESULT 3

US-08-836-022A-10/c
; Sequence 10, Application US/08836022A
; Patent No. 6001557
; GENERAL INFORMATION:
; APPLICANT: Trustees of the University of Pennsylvania
; APPLICANT: Wilson, James M.
; APPLICANT: Fisher, Krishna J.
; APPLICANT: Chen, Shu-Jen
; APPLICANT: Weitzman, Matthew
; TITLE OF INVENTION: Improved Adenovirus Virus and
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr, P O Box 457
; CITY: Spring House
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,022A
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/331,381
; FILING DATE: 28-OCT-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GNVPN.008PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9200
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19307 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: cDNA

US-08-836-022A-10
Query Match 66.9%; Score 1004; DB 3; Length 19307;
Best Local Similarity 90.3%; Pred. No. 0;
Matches 1073; Conservative 0; Mismatches 115; Indels 0; Gaps 0;
QY 313 GGFACCTACTCATAGATTACTGCAACAGTTCCCTCGACCTGGAAAAGTTTCTTCGCTG 372
Db 6434 GGAAGAAAACCTCATAGATTACTGCAAGAGTTCCCTCTGGACCTGGAGAAGTTTCTTCCTG 6375
QY 373 GCTTACAGAAAGCTGAAACAACCTGCCAATGTCTACAGGATGCTACCCGTAAGGAAGGCT 432
Db 6374 GATTACGGAAGCAGAAAACAACCTGCCAATGTCTACAGGACGCTTCCCGTAAGGAAGGCT 6315
QY 433 CCTAGAAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGGTGA 492
Db 6314 CCTAGAAAGACTCCAAGGGAGTCAAGAGAGCTGATGAAACCATGGCAAGATCTCCAAGGAGA 6255
QY 493 AATTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACAACAGCCAAAATCCTGAG 552
Db 6254 AATTGAAGCTCACACAGATATCTATCACAATCTTGATGAAAATGGCCAAAATATCCTGAG 6195
QY 553 ATCCCTGGAAGGTTCCGATGATGAGTCCCTGTTTACAAAGACGTTTGGATAACATGAACCTT 612
Db 6194 ATCCCTGGAAGGTTCCGATGAGACACCCCTGTTTACAAAGACGTTTGGATAACATGAATTT 6135
QY 613 CAAGTGGAGTGAACTTCCGAAAAGTCTCTCAACATTAGTCCCATTTTGAAGCCAGTTTC 672
Db 6134 CAAGTGGAGTGAACTTCCGAAAAGTCTCTCAACATTAGTCCCATTTTGAAGCCAGTTTC 6075
QY 673 TGACCAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACTTCTGGTGTGGCTACAGTGAA 732
Db 6074 TGACCAGTGAAGCGTTTGGATCTTTCTCTTTCAGGAACTTCTTGTGGCTACAGTGAA 6015
QY 733 AGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGCACTTTCAGCAGTTTCAAGACA 792
Db 6014 AGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGCACTTTCAGCAGTTTCAAGACA 5955
QY 793 GAACGATGTACATAGGGCCTTCAAGAGGGAATTGAAACAATAAGAACCTGTATCATGAG 852
Db 5954 GAATGATATACATAGGGCCTTCAAGAGGGAATTGAAACAATAAGAACCTGTATCATGAG 5895
QY 853 TACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTTGAAGGACTAGAGAACT 912
Db 5894 TACTCTTGAGACTGTGAGAATATTTCTGACAGAGCAGCCTTTTGAAGGACTAGAGAACT 5835
QY 913 CTACAGAGAGCCAGAGAGCTGCTCTCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCT 972
Db 5834 CTACAGAGAGCCAGAGAGCTGCTCTCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCT 5775
QY 973 ACGAAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAAATTGAACCTGCACCTCGCTGA 1032
Db 5774 ACGAAAAGCAGGCTGAGGAGGTCAACGCTGAATGGGACAAATTTGAACCTGCCTCAGCTGA 5715
QY 1033 CTGSCAGAGAAAAATAGATGAGACCCCTTGAAGAGACTCCAGGAACCTTCAAGAGGCCACGGA 1092
Db 5714 TTGSCAGAGAAAAATAGATGAAGCTCTTGAAGAGACTCCAGGAACCTTCAAGAGGCCACGGA 5655
QY 1093 TGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCTGGG 1152
Db 5654 TGAAGTGGACCTCAAGTTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCTGGG 5595
QY 1153 CGATCTCCTCATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGA 1212
Db 5594 GGATCTCCTCATTGACTCTCTGCAAGATCACCTTTGAAAAAGTCAAGGCACCTTCGAGGAGA 5535
QY 1213 AATTGGCCCTCTGAAAGAGAACGTGAGGCCACGTCATGACCTTGTCTGCCAGCTTACCAC 1272
Db 5534 AATTGCACCTCTTAAAGAGAAATGTCAATCGTGTCAATGACCTTGCACATCAGCTGACCAC 5475
QY 1273 TTTGGGCATTGAGCTCTACCGGTATAACCTCAGCACTCTGGAAGACCTGAACACCATG 1332
Db 5474 ACTGGGCATTGAGCTCTCACCTTATAACCTCAGCACTTTTGAAGATCTGAATACCATG 5415

RESULT 5
US-09-091-501B-7
; Sequence 7, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Uterophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 6045
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (11)..(6037)
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Chimeric
;
; NAME/KEY: misc feature
; LOCATION: (724)..(758)
; OTHER INFORMATION: Precise residue is left open
US-09-091-501B-7
Query Match 26.4%; Score 397; DB 4; Length 6045;
Best Local Similarity 59.3%; Pred. No. 5e-120;
Matches 698; Conservative 0; Mismatches 470; Indels 9; Gaps 1;
QY 333 TGCAACAGTTCCCTCGACCTGGAAAGTTTCTTGCTGCTGGCTTACAGAGCTGAAACAA 392
Db 3069 TGCAGGCTCTCGCAGAGATCTGAAACCTTCTCGAAGTGGATCCCAAGAGCAGAGACCA 3128
QY 393 CTGCCAATGCTTACAGGATGCTACCCGTAGGAAAGGCTCCTAGAGACTCCAAGGGAG 452
Db 3129 CAGTGAATGCTTGTGATGCTCTCATCGGAGAGATGCTCTTCAGGATAGTATCTTGG 3188
QY 453 TAAAAGAGCTGATGAACAATGGCAAGACCTCCAAAGGTGAAATTGAAGCTCACACAGATG 512
Db 3189 CCAGGGAACCTCAACACAGCAGATGCAGGACATCCAGGCAGAAATTGATGCCACAAATGACA 3248
QY 513 TTTATCACAACTGGATGAAACACAGCCAAATCCTGAGATCCCTGGAAGGTTCCGATG 572
Db 3249 TATTTAAAGCATTTGACGGAACACAGGCAGAGATGGTAAAGCTTTGGGAAATTTCTGAAG 3308
QY 573 ATGCAGTCTGTTACAAAGACGTTTGGATAACATGAACCTTCAAGTGGAGTGAACCTTCGGA 632
Db 3309 AGGCTACTATGCTTCAACATCGACTGGATGATGAACCAAGATGGAATGACTTAAAG 3368
QY 633 AAAAGTCTCTCAACATTAAGTCCCATTTGGAGCCAGTTCTTGACCAAGTGAAGCGTCTGC 692
Db 3369 CAAAATCTGTAGCATCAGGGCCCATTTGGAGGCCAGCGCTGAGAAGTGAAGTGAACAGGTTGC 3428
QY 693 ACCTTTCTCTGCAGGAATCTTGTGTGGCTACAGCTGAAAGATGATGAATTAAGCCGGC 752
Db 3429 TGATGCTCTTAGAAGAACTGATCAAAATGGCTGAATGAAGATGAAGACTTAAGAAAC 3488
QY 753 AGGCACCTATTGGAGGCGACTTTCCAGCAGTTTCAGAAAGCAGAACGATGACATAGGCGCT 812
Db 3489 AAATGCCTATTGGAGGAGATGTTCCAGCCTTACAGCTCCAGTATGACCATGTAAGGCC 3548

QY 813 TCAAGAGGGGAATTGAAACCTAAAGAACCTGTAATCATGACTACTCTTTGAGACTGTACGAA 872
Db 3549 TGACACGGGAGTTAAAGGAGAAAGAAATATTCTGTCTCTGATGCTGTGACACGAGCCGAG 3608
QY 873 TATTTCTGACAGAGCAGCCCTTTT-----GGAAGACTAGAGAAACTCTACCAAGAGC 923
Db 3609 TTTTCTTGGCTGATCAGCCCAATTGAGGCCCTTGAGAGCCCAAGAAACCTACAAATCAA 3668
QY 924. CCAGAGAGTGCCTCTGAGGAGAGAGCCAGAAATGTAACCTCGGCTTCTACGAAAGCAGG 983
Db 3669 AAACAGAAATTAACCTCTGAGGAGAGAGCCCAAAAGATGTCCTGCAAGCCATGCGCAACAGT 3728
QY 984 CTGAGGAGGTCAATACTGAGTGGGAAATAATTGAACCTGCACTCCGCTGACTGGCAGAGAA 1043
Db 3729 CTTCTGAAGTCAAAGAAATAATGGGAAAGTCTAAATGCTGTAACTAGCAATTTGGCAAAGC 3788
QY 1044 AAATAGATGAGACCCCTTGAAGACTCCAGGAACTTCAAGAGGCCACCGGATGAGCTGGACC 1103
Db 3789 AAGTGGACAAGGCATTGGAGAAACTCAGAGACCTGCAAGGAGCTATGGATGACCTGGACG 3848
QY 1104 TCAAGCTGCGCAAGCTGAGTGTGATCAAGGGATCCTGGCAGCCCGTGGCGATCTCTCTCA 1163
Db 3849 CTGACATGAAGGAGGAGGAGCTCGTGGGAATGCTGGAAGCCCGTGGGAGACTTACTCA 3908
QY 1164 TTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTTGGGCTC 1223
Db 3909 TTGACTCGCTGCAGGATCACAATTGAAATAATCATGGCATTTAGAGAAGAAATTTGCACAA 3968
QY 1224 TGAAGAGAACGTCAGCCACGTCACATGACCTTGTCTGCGCAGCTTACCACCTTTGGGCAATC 1283
Db 3969 TCAACTTTAAAGTTAAACCGTGAATGATTTATCCAGTCAGCTGTCTCCACTTTGACCTGC 4028
QY 1284 AGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTTGAACACCAAGATGGAAGCTTTCTGC 1343
Db 4029 ATCCCTCTCTAAAGATGTCTGCGCAGCTAGATGACCTTAATATGCGATGGAACCTTTTAC 4088
QY 1344 AGTGGCCGTCGAGGACCGGAGTCAGGAGCTGCATGAAGCCCAAGGCACTTTTGGTCCAG 1403
Db 4089 AGGTTTCTGTGGATGATCGCTTAAACAGCTTCAGGAAGCCCAAGAGATTTTGGACCAT 4148
QY 1404 CATCTCAGCACTTTCTTTCCAGCTCTGTCCAGGGTCCCTGGGAGAGAGCCATCTCGCAA 1463
Db 4149 CCTCTCAGCACTTTCTCTCTAGCTCAGTCCAGCTGCGGTGGCAAGATCCATTTTCACATA 4208
QY 1464 ACAAAGTGCCTTACTATATCAACACGAGACTCAAAAC 1500
Db 4209 ATAAAGTGCCTTATTACATCAACCATCAAAACACAGAC 4245

RESULT 6
US-09-091-501B-9
; Sequence 9, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Uterophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 10320

TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
NAME/KEY: CDS
LOCATION: (11)..(10312)
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Full length
OTHER INFORMATION: utrophin construct
FEATURE:
NAME/KEY: misc feature
LOCATION: (724)..(758)
OTHER INFORMATION: Precise residue is left open
US-09-091-501B-9
Query Match 26.4%; Score 397; DB 4; Length 10320;
Best Local Similarity 59.3%; Pred. No. 7.3e-120;
Matches 698; Conservative 0; Mismatches 470; Indels 9; Gaps 1;
QY 333 TGCAACAGTTCCCTGGACCTGGAAAGTTTCTTGGCTTACAGAACTGAAACAA 392
Db |||||
QY 7344 TGCAGGCTCTCGCAGAGATCTGGAAACTTCTGAGTGGATCCAAAGACGAGACCA 7403
Db |||||
QY 393 CTGCCAATGTCTACAGGATGCTACCCGTAAAGAAAGCTCTTACAGAACTCCAAAGGAG 452
Db |||||
QY 7404 CAGTGAATGTCTTGTGATGCCTCTCATCGGAGAAATGCTCTTCAGGATAGTATCTTG 7463
Db |||||
QY 453 TAAAGAGCTGATGAAACAAATGGCAAGCTCCAAAGGTGAATTAAGCTCACACAGATG 512
Db |||||
QY 7464 CCAGGAACTCAACAGCAGATGCAGGACATCCAGGAGAAATGATGCCACAAATGACA 7523
Db |||||
QY 513 TTTATCAACCTGGATGAAACAGCCAAATAATCTGAGATCCCTGGAAGTTCCGATG 572
Db |||||
QY 7524 TATTTAAAGCAATGACGGAAACAGGCAAGATGGTAAAGCTTTGGAAATTTCTGAAG 7583
Db |||||
QY 573 ATGCAGTCTGTACAAAGACGTTTGGATTAACATGAATCTCAAGTGGAGTGAATTCGGA 632
Db |||||
QY 7584 AGGCTACTATGCTTCAACATCGACTGGATGATATGAACCAAGATGGAATGACTTAAAG 7643
Db |||||
QY 633 AAAAGTCTCTCAACATAGGTCCCATTTGGAAGCCAGTTCTGACAGTGAAGCGTCTGC 692
Db |||||
QY 7644 CAAATCTGCTAGCATCAGGGCCCATTTGGAGCCAGCGCTGAGAAGTGAACAGGTTGC 7703
Db |||||
QY 693 ACCTTCTCTGCGAACTTCTGGTGTGGCTACAGTGAAGATGAATTAAGCCGCG 752
Db |||||
QY 7704 TGATGTCTTAGAAGAACTGATCAATGGCTGAATATGAAGATGAAGAGCTTAAGAAAC 7763
Db |||||
QY 753 AGGCACCTATTGGAGCGGACTTTCAGCAGTTCAGAAAGCAGAACGATGTACATAGGCGCT 812
Db |||||
QY 7764 AAATGCCTATTGGAGGAGATGTTCCAGCCTTACAGCTCCAGTATGACCATTTGTAAGGCC 7823
Db |||||
QY 813 TCAAGAGGGAATTGAAACTAAAGAACTTGAATCATGATGATCTTGTAGACTGTACGAA 872
Db |||||
QY 7824 TGAGACGGGAGTTAAAGGAGAAAGATATCTGTCTGATGATGCTGACAGCCGCGAG 7883
Db |||||
QY 873 TATTCTGACAGAGCAGCCTTT-----GGAAGGACTAGAGAACTCTACCAGGAGC 923
Db |||||
QY 7884 TTTTCTGGCTGATCAGCCAAATTGAGGCCCTGAAGAGCCCAAGAGAAACCTACAATCAA 7943
Db |||||
QY 924 CCAGAGAGCTGCTCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGG 983
Db |||||
QY 7944 AAACAGAAATTAATCTGAGGAGAGAGCCCAAGATTTGCCAAGCCATGCGCAACAGT 8003
Db |||||
QY 984 CTGAGGAGGTCAATACTAGTGGGAAATTAACCTGCACTCCGCTGACTGGCAGAGAA 1043
Db |||||
QY 8004 CTTCTGAAGTCAAGAAATGGAAGAGTCTAAATGCTGTAACTAGCAATTTGCCAAAGC 8063
Db |||||
QY 1044 AAATAGATGAGACCTTGAAGACTCCAGGAACTTCAAGAGGCCACGGATGAGCTGGACC 1103
Db |||||
QY 8064 AAGTGGACAAGGCAATTGGAGAAACTCAGAGACCTGCGGGAGCTATGGATGACCTGGACG 8123
Db |||||
QY 1104 TCAAGCTGGCCAGCTGAGGTGATCAAGGGATCTTGGCAGCCCGTGGGCGGATCTCCTCA 1163
Db |||||
QY 8124 CTGACATGAAGGAGGAGAGTCCGTGCGGAAATGGCTGGAAGCCCGTGGAGACCTTACTCA 8183
Db |||||

QY 1164 TTGACTCTCTCCAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAAATTCGCCTC 1223
Db |||||
QY 8184 TTGACTCGCTGCAGGATCACATTGAAAAAATCATGGCATTTAGAGAAAGAAATTCACCAA 8243
Db |||||
QY 1224 TGAAAGAGAACGTGAGCCACGTCAATGACCTTGTCTGCCAGCTTACCACCTTTGGGCATTC 1283
Db |||||
QY 8244 TCAACTTTAAAGTTAAACCGTGAATGATTTATCCAGTCAGCTGTCTCCACTTGACCTGC 8303
Db |||||
QY 1284 AGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTTCTGC 1343
Db |||||
QY 8304 ATCCCTCTCTAAAGATGTCTGCCAGCTAGATGACCTTATATGCGATGGAACCTTTTAC 8363
Db |||||
QY 1344 AGTGGCCGTCAGGACCGAGTCAGGACGCTGATGAAGCCACAGGAGCTTTGGTCCAG 1403
Db |||||
QY 8364 AGGTTTCTGTGGATGATCGCCTTAAACAGCTTCAGGAAGCCACAGAGATTTTGGACCAT 8423
Db |||||
QY 1404 CATCTCAGCACTTTCTTCCAGCTGTCTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAA 1463
Db |||||
QY 8424 CCTCTCAGCACTTTCTCTACGTACGTCCAGCTGCCGTGGCAAGATCCATTTTCACATA 8483
Db |||||
QY 1464 ACAAGTGCCCTACTATATCAACACGAGACTCAAAAC 1500
Db |||||
QY 8484 ATAAAGTGCCCTATTACATCAACCATCAACACAGAC 8520
Db |||||
RESULT 7
US-09-976-594-93
; Sequence 93, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:
; APPLICANT: Furness, Michael
; APPLICANT: Buchbinder, Jenny
; TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
; FILE REFERENCE: PA-0041 US
; CURRENT APPLICATION NUMBER: US/09/976,594
; CURRENT FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/240,409
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 1143
; SOFTWARE: PERL Program
; SEQ ID NO 93
; LENGTH: 3915
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6673549 290344.1
US-09-976-594-93
Query Match 20.8%; Score 311.8; DB 4; Length 3915;
Best Local Similarity 60.0%; Pred. No. 5.3e-92;
Matches 538; Conservative 0; Mismatches 357; Indels 2; Gaps 1;
QY 604 CATGAACCTTCAAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGGTCCCATTGGA 663
Db |||||
QY 544 CATGAATCTGTGTGGAATGAATAAAAAAGTCTCACAACCTCCGCGCTCGCCTAGA 603
Db |||||
QY 664 AGCCAGTTCTGACAGTGGAGCGTCTGACACCTTTCTCTGACGGAACCTTCTGGTGTGGCT 723
Db |||||
QY 604 GGCCTTCTCAGACCAACAGTGGAAAGCTTCAGCTCCCTCTTCAAGAGATTTAGTGGCT 663
Db |||||
QY 724 ACAGCTGAAAGATGATGAATTAAGCCGCGAGGACCTATTGGAGGCGACTTTCACAGCAGT 783
Db |||||
QY 664 CAGCCAAAGGATGAGGATTTGTGAGTCAAGTCCCTTACAGGGGATGTGGCCTGGT 723
Db |||||
QY 784 TCAGAGCAGAAAGATGTACATAGGCGCTTCAAGAGGGAATTTGAAAACTAAAGAACCTGT 843
Db |||||
QY 724 GCAACAGGAGAGGAGACACATCGGCGCTTTATGGAAGAAAGTCAAGTCTCGGGGCCCTA 783
Db |||||
QY 844 AATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTTGAAGGACT 903
Db |||||
QY 784 CATCTATTCTGTGCTGGAGTCAGCTCAGGCTTCTGTGCCAGCAGCCTTTTGAAGGACT 843
Db |||||

QY 904 AGAGAACTCTACAGAGAGCCAGAGAGCTGCCTCCTGAGGAGAGAGCCAGAAATGTCA 963
Db 844 AGAGGAGCCTCACTTGAGAGCAAGATACTCCCGAAACAGCGGATCCAGATCTCAG 903
QY 964 TCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAATTGAACCTGCA 1023
Db 904 CCGCTTTGTATGAAGCAGGCGACCGTGGCCAGTGAACCTGTGGGAGAAAGTTGACAGCCG 963
QY 1024 CTCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGA 1083
Db 964 CTGTGTGGACCAGCACCGTCACTTGGAGCGGACTCTGGAGCAGCTCTTGGAGATTCA--G 1021
QY 1084 GGCCACGGATGAGTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCA 1143
Db 1022 GGGCATGGAGGAATAAGCACTACTCTGAGCCAAAGCTGAGGGAGTCCGAGCCACTTGGGA 1081
QY 1144 GCCCGTGGCGATCTCCTCATTGACTCTCTCCAAAGATCACCTCGAGAAAGTCAAGGCACT 1203
Db 1082 GCCCATTGGGGATCTCTTCACTTCACTCCAGAGCACATCCAGGCTATTAAAGCTGT 1141
QY 1204 TCGAGGAGAAATGGCCCTCTGAAAGAGAAAGCTGAGCCACGTCATCAATCACTTGTCCGCA 1263
Db 1142 CAAAGAAGAAATCTCCCCCATGAAAGATGGAGTAAAGTTGGTGAATGATCTGGCCACCA 1201
QY 1264 GCTTACCACCTTTGGGATTCAGCTCTCACCGTATACCTCAGCACTCTGGAAGACCTGAA 1323
Db 1202 ACTTGCCATTTCTGATGTGCATTTGTCAATGGAGAATTTCCAGGCCCTGGAACAGATCAA 1261
QY 1324 CACCAGATGGAAGCTTCTGCAGGTGGCCGTGAGGACCGAGTCAGGAGCTGCATGAAGC 1383
Db 1262 CGTCCGATGGAACAACACTACAGGCGTCACTGATGAGAGGCTTAAGCAGCTCCAGGATGC 1321
QY 1384 CCACAGGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTCCTCCAGGGTCCCTG 1443
Db 1322 CCACCGGACTTTGGCCCTGGGTACAGCACTTTCTCTCCTCTCTGTCAGGTTCCCTG 1381
QY 1444 GGAGAGAGCCATCTGCCAAACAAAGTGCCCTACTATATCAACCCAGAGACTCAAC 1500
Db 1382 GGAAGAGCAATTTACCCCAATAAAGTTCCCTACTACATCAACCCAGGCTCAGAC 1438

RESULT 8

US-09-091-501B-5
; Sequence 5, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; TYPE: DNA
; ORGANISM: Rattus sp.
US-09-091-501B-5

Query Match 4.7%; Score 69.8; DB 4; Length 200;
Best Local Similarity 67.6%; Pred. No. 6.3e-13;
Matches 98; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 5 GATCTAGAACAAAGCAAGTCAAGGTCAATTTCTCACTCAGATGGTGGTGGTAGTGTGAT 64
Db 56 GACCTCGAAGCTGAGCAGGTGAAGGTGAATTCCTTAATCATATGGTGGTCAATTTGGAT 115
QY 65 GAATCTAGTGGAGATCACGCAACTGCTGCTTTTGGAGAAACAACTTAAGGTATTGGGAGAT 124
Db 116 GAAAAACAGTGGGGAGAGCGCCACAGCTGTTTGGGAAGATCAGTTACAGAAACTGGGTGAG 175
QY 125 CGATGGGCAAAACATCTCTAGATGGA 149
Db 176 CGCTGGACAGCTGTATGCCGCTGGA 200

RESULT 9

US-09-091-501B-4
; Sequence 4, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 200
; TYPE: DNA
; ORGANISM: Mus sp.
US-09-091-501B-4

Query Match 4.6%; Score 69; DB 4; Length 200;
Best Local Similarity 66.4%; Pred. No. 1.2e-12;
Matches 99; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

QY 1 AGAAGATCTAGAACAAAGCAAGTCAAGGTCAATTTCTCACTCAGATGGTGGTGGTAGT 60
Db 52 AATGACCTTGAAGCTGAAGTGAAGGTAAATTCCTTAATCAGATGGTGGTCAATTTGT 111
QY 61 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAAACAACTTAAGGTATTGGG 120
Db 112 GGATGAAAACAGTGGGGAGAGTCCACAGCTCTTCTGGAAGATCAGTTACAGAAACTGGG 171
QY 121 AGATCGATGGGCAAAACATCTCTAGATGGA 149
Db 172 TGAGCGCTGGACAGCTGTATGCCGCTGGA 200

RESULT 10

US-09-091-501B-6
; Sequence 6, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9


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RESULT 13
US-09-620-312D-69
; Sequence 69, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenchua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yunqing
; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Zhiwei
; APPLICANT: John Tillinghast
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 6569662el Nucleic Acids and
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/09/620,312D
; CURRENT FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1105
; SOFTWARE: pt_FL_genes Version 1.0
; SEQ ID NO 69
; LENGTH: 1690
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (128)..(1522)
US-09-620-312D-69

Query Match      2.9%; Score 42.8; DB 4; Length 1690;
Best Local Similarity 47.9%; Pred. No. 0.0025;
Matches 156; Conservative 0; Mismatches 167; Indels 3; Gaps 1;

QY 1069 CCAGGAACCTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAACTGAGGTGAT 1128
Db 55 CAAGGAGTTGCCACCGTGGCGCACGACCTGGACGAGCTGGCATGGGTTTCAGGAGCG 114

QY 1129 CAAGGGA---TCCTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCAAGATCACCT 1185
Db 115 GCTGCCACTGGCCATGCAGACAGAGCGAGGCAACGGTTTGCAGGCGGTCCAGCAGCACAT 174

QY 1186 CGAGAAAGTCAAGGCACCTTCGAGGAGAAATTGCGCTCTGAAAGAGAACGTCAGCCACGT 1245
Db 175 CAAAAGAAACCAAGGCGCTGCGCGGGAGATCCAGGCGCATGGGCGCGCTGGAGGAGGT 234

QY 1246 CAATGACCTTGCTCGCCAGCTTACCACCTTTGGGCATTGAGCTCTCACCGTAACTCAG 1305
Db 235 GCTGAGCGCGCGGCGCTGCGTGGCGTGGCGAGCCCGAGGCGAGGAGTGGCGCG 294

QY 1306 CACTCTGGAAGACCTGAACACAGATGGAAGCTTCTGCAAGTGGCGGTGCGAGGACCGAGT 1365
Db 295 GGGCCTGGAGCAGCTGCAGAGCGCTGGGCGGACTGCGGGAGGCTGCCGAGCGGCA 354

QY 1366 CAGGCAGCTGCATGAAGCCACAGGG 1391
Db 355 GCAGGTGCTGGACCGCGCTTCCAGG 380
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RESULT 14
US-09-368-590-1

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; Sequence 1, Application US/09368590
; Patent No. 6187563
; GENERAL INFORMATION:
; APPLICANT: Solimena, Michele
; TITLE OF INVENTION: INTERACTING POLYPEPTIDES FOR
; TITLE OF INVENTION: AUTOANTIGENS OF AUTOIMMUNE DISEASES
; FILE REFERENCE: 101918-200 (OCR-941)
; CURRENT APPLICATION NUMBER: US/09/368,590
; CURRENT FILING DATE: 1999-08-04
; EARLIER APPLICATION NUMBER: 60/095,657
; EARLIER FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 7812
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)....(6879)
; NAME/KEY: unsure
; LOCATION: (100)....(102)
; NAME/KEY: unsure
; LOCATION: (1021)....(1023)
; NAME/KEY: unsure
; LOCATION: (2266)....(2268)
US-09-368-590-1

Query Match      2.9%; Score 42.8; DB 3; Length 7812;
Best Local Similarity 47.9%; Pred. No. 0.0077;
Matches 156; Conservative 0; Mismatches 167; Indels 3; Gaps 1;

QY 1069 CCAGGAACCTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAACTGAGGTGAT 1128
Db 3639 CAAGGAGTTGCCACCGTGGCGCACGACCTGGACGAGCTGGCATGGGTTTCAGGAGCG 3698

QY 1129 CAAGGGA---TCCTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCAAGATCACCT 1185
Db 3699 GCTGCCACTGGCCATGCAGACAGAGCGAGGCAACGGTTTGCAGGCGGTCCAGCAGCACAT 3758

QY 1186 CGAGAAAGTCAAGGCACCTTCGAGGAGAAATTGCGCTCTGAAAGAGAACGTCAGCCACGT 1245
Db 3759 CAAAAGAAACCAAGGCGCTGCGCGGGAGATCCAGGCGCATGGGCGCGCTGGAGGAGGT 3818

QY 1246 CAATGACCTTGCTCGCCAGCTTACCACCTTTGGGCATTGAGCTCTCACCGTAACTCAG 1305
Db 3819 GCTGAGCGCGCGGCGGTGGCGTGGCTGCGCAGCCCGAGGAGGAGTGGCGCG 3878

QY 1306 CACTCTGGAAGACCTGAACACAGATGGAAGCTTCTGCAAGTGGCGGTGCGAGGACCGAGT 1365
Db 3879 GGGCCTGGAGCAGCTGCAGAGCGCTGGGCGGACTGCGGGAGGCTGCCGAGCGGCA 3938

QY 1366 CAGGCAGCTGCATGAAGCCACAGGG 1391
Db 3939 GCAGGTGCTGGACCGCGCTTCCAGG 3964

RESULT 15
US-09-620-312D-847
; Sequence 847, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenchua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
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OM nucleic - nucleic search, using sw model

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Maximum Match 100%

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- 3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*
- 4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq.*
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- 8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
- 9: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq.*
- 10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
- 11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq.*
- 12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq.*
- 13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
- 14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
- 15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*
- 16: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq.*
- 17: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*
- 18: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*
- 19: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1501	100.0	4182	10	US-09-845-416-2
2	1501	100.0	5149	10	US-09-845-416-27
3	1000.2	66.6	3999	10	US-09-845-416-6
4	1000.2	66.6	4966	10	US-09-845-416-28
5	1000.2	66.6	4990	10	US-09-845-416-34
6	1000.2	66.6	8689	16	US-10-149-736-42
7	1000.2	66.6	11058	10	US-09-845-416-1
8	1000.2	66.6	11443	16	US-10-149-736-44
9	1000.2	66.6	12057	16	US-10-149-736-47
10	1000.2	66.6	13957	9	US-09-782-378A-22
11	1000.2	66.6	13957	9	US-09-880-107-2284
12	1000.2	66.6	13957	16	US-10-149-736-1
13	1000.2	66.6	14069	13	US-10-342-887-434
14	1000.2	66.6	14069	13	US-10-172-118-434

15	1000.2	66.6	14082	13	US-10-342-887-981	Sequence 981, Appl
16	1000.2	66.6	14082	13	US-10-172-118-981	Sequence 981, Appl
17	1000.2	66.6	14082	16	US-10-341-434-108	Sequence 108, Appl
18	999.8	66.6	3858	10	US-09-845-416-9	Sequence 9, Appli
19	999.8	66.6	4825	10	US-09-845-416-29	Sequence 29, Appl
20	999.8	66.6	4848	10	US-09-845-416-35	Sequence 35, Appl
21	999.8	66.6	5060	10	US-09-845-416-36	Sequence 36, Appl
22	999	66.6	2169	10	US-09-845-416-4	Sequence 4, Appli
23	999	66.6	3531	10	US-09-845-416-10	Sequence 10, Appl
24	999	66.6	4498	10	US-09-845-416-30	Sequence 30, Appl
25	997	66.4	5339	16	US-10-149-736-40	Sequence 40, Appl
26	996	66.4	5462	16	US-10-149-736-41	Sequence 41, Appl
27	847.2	56.4	13815	16	US-10-149-736-2	Sequence 2, Appli
28	656.8	43.8	3510	10	US-09-845-416-12	Sequence 12, Appl
29	656.8	43.8	4476	10	US-09-845-416-31	Sequence 31, Appl
30	652	43.4	1821	10	US-09-845-416-13	Sequence 13, Appl
31	514	34.2	3446	10	US-09-845-416-14	Sequence 14, Appl
32	514	34.2	4414	10	US-09-845-416-32	Sequence 32, Appl
33	503.4	33.5	5417	16	US-10-149-736-39	Sequence 39, Appl
34	497.8	33.2	1991	10	US-09-845-416-3	Sequence 3, Appli
35	387	25.8	387	16	US-10-149-736-32	Sequence 32, Appl
36	348	23.2	348	16	US-10-149-736-31	Sequence 31, Appl
37	322.4	21.5	333	16	US-10-149-736-10	Sequence 10, Appl
38	297.2	19.8	11096	16	US-10-149-736-4	Sequence 4, Appli
39	297	19.8	10705	12	US-10-152-319A-1598	Sequence 1598, Ap
40	293.4	19.5	10302	9	US-09-782-378A-23	Sequence 23, Appl
41	293.4	19.5	10302	16	US-10-149-736-3	Sequence 3, Appli
42	281.4	18.7	16531	15	US-10-101-510-667	Sequence 667, App
43	265	17.7	1434	10	US-09-845-416-15	Sequence 15, Appl
44	261	17.4	324	16	US-10-149-736-33	Sequence 33, Appl
45	211.6	14.1	5106	13	US-10-220-120-157	Sequence 157, App

ALIGNMENTS

RESULT 1

US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2

Query Match	100.0%;	Score 1501;	DB 10;	Length 4182;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1501;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	AGAAGATCTAGAACAAGCAAGTCAGGGTCAATTCTCTCACTCACATGGTGGTAGT	60	
Db	1500	AGAAGATCTAGAACAAGCAAGTCAGGGTCAATTCTCTCACTCACATGGTGGTAGT	1559	
QY	61	TGATGAATCTAGTGGAGATCAAGCAACTGCTGCTTTGGGAAGCAACTTAAGGTATTGGG	120	
Db	1560	TGATGAATCTAGTGGAGATCAAGCAACTGCTGCTTTGGGAAGCAACTTAAGGTATTGGG	1619	
QY	121	AGATCGATGGSCAAACATCTGTAGATGGACAGAACCGCTGGGTCTTTTACAAGACAT	180	
Db	1620	AGATCGATGGSCAAACATCTGTAGATGGACAGAACCGCTGGGTCTTTTACAAGACAT	1679	

QY 181 CCTTCTCAAATGGCAACGCTTCTTACTGAAGAACAGTGCCTTTTCTAGTGCATGGCTTTCAGA 240
Db 1680 CCTTCTCAAATGGCAACGCTTCTTACTGAAGAACAGTGCCTTTTCTAGTGCATGGCTTTCAGA 1739
QY 241 AAAAGAAGATGCAGTGAACAGATTTCACACAACCTGGCTTTAAAGATCAAAATGAATGTT 300
Db 1740 AAAAGAAGATGCAGTGAACAGATTTCACACAACCTGGCTTTAAAGATCAAAATGAATGTT 1799
QY 301 ATCAAGTCTTCAAAAACCTGGCCGTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 360
Db 1800 ATCAAGTCTTCAAAAACCTGGCCGTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 1859
QY 361 GGGCAAACTGTATTCACTCAAAACAAGATCTTCTTTCAACACTGAAGATAAGTCAAGTAC 420
Db 1860 GGGCAAACTGTATTCACTCAAAACAAGATCTTCTTTCAACACTGAAGATAAGTCAAGTAC 1919
QY 421 CCAGAAAGACGGAAGCATGGCTGGATAAATTTGGCCGGTGTGGGATAATTTAGTCCAAA 480
Db 1920 CCAGAAAGACGGAAGCATGGCTGGATAAATTTGGCCGGTGTGGGATAATTTAGTCCAAA 1979
QY 481 ACTTGAAGAGAGTACAGCACAGACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGA 540
Db 1980 ACTTGAAGAGAGTACAGCACAGACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGA 2039
QY 541 AAAGTTTCTTGCCTGGCTTACAGAAAGCTGAACAACCTGCCAATGTCTACAGGATGCTAC 600
Db 2040 AAAGTTTCTTGCCTGGCTTACAGAAAGCTGAACAACCTGCCAATGTCTACAGGATGCTAC 2099
QY 601 CCGTAAGGAAAGGCTCCTAGAAGACTCCTAAGGAGTAAAGAGCTGATGAAACAATGGCA 660
Db 2100 CCGTAAGGAAAGGCTCCTAGAAGACTCCTAAGGAGTAAAGAGCTGATGAAACAATGGCA 2159
QY 661 AGACCTCCAAGGTGAATTAAGCTCACACAGATGTTTATCAACAACCTGGATGAAACAAG 720
Db 2160 AGACCTCCAAGGTGAATTAAGCTCACACAGATGTTTATCAACAACCTGGATGAAACAAG 2219
QY 721 CCAAAAATCCTGAGATCCCTGGAAGTTCGAGTATGAGTCTCTGTTTACAAAGACGTTT 780
Db 2220 CCAAAAATCCTGAGATCCCTGGAAGTTCGAGTATGAGTCTCTGTTTACAAAGACGTTT 2279
QY 781 GGATAACATGAACCTCAAGTGGAGTGAACCTCGGAAAGTCTCTCAACATTAGTCCCA 840
Db 2280 GGATAACATGAACCTCAAGTGGAGTGAACCTCGGAAAGTCTCTCAACATTAGTCCCA 2339
QY 841 TTTGGAAGCCAGTTCTGACCAGTGGAGGCTGTGCACCTTTCTCTGCAGGAACCTTCTGGT 900
Db 2340 TTTGGAAGCCAGTTCTGACCAGTGGAGGCTGTGCACCTTTCTCTGCAGGAACCTTCTGGT 2399
QY 901 GTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGACCTATTGGAGGCGACTTTC 960
Db 2400 GTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGACCTATTGGAGGCGACTTTC 2459
QY 961 AGCAGTTCAAGAGCAGAACGATGTACATAGGGCCTTCAAGAGGGAATTGAAAACCTAAGA 1020
Db 2460 AGCAGTTCAAGAGCAGAACGATGTACATAGGGCCTTCAAGAGGGAATTGAAAACCTAAGA 2519
QY 1021 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGA 1080
Db 2520 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGA 2579
QY 1081 AGGACTAGAGAACTCTACCAGGAGCCAGAGAGCTGCCTCTCTGAGGAGAGAGCCAGAA 1140
Db 2580 AGGACTAGAGAACTCTACCAGGAGCCAGAGAGCTGCCTCTCTGAGGAGAGAGCCAGAA 2639
QY 1141 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATCTAGTGGGAAAAATTGAA 1200
Db 2640 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATCTAGTGGGAAAAATTGAA 2699
QY 1201 CCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGGAAC 1260
Db 2700 CCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGGAAC 2759
QY 1261 TCAAGAGGCCAGGATGAGTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATC 1320

Db 2760 TCAAGAGGCCAGGATGAGTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATC 2819
QY 1321 CTGCGAGCCCGTGGCGATCTCTCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAA 1380
Db 2820 CTGCGAGCCCGTGGCGATCTCTCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAA 2879
QY 1381 GGCACCTTCGAGGAGAAATTTGGCCCTCTGAAAAGAGAACGTCGACCCAGTCAATGACCTTGC 1440
Db 2880 GGCACCTTCGAGGAGAAATTTGGCCCTCTGAAAAGAGAACGTCGACCCAGTCAATGACCTTGC 2939
QY 1441 TCGCCAGCTTACCACCTTTGGGCATTTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGA 1500
Db 2940 TCGCCAGCTTACCACCTTTGGGCATTTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGA 2999
QY 1501 C 1501
Db 3000 C 3000

RESULT 2

US-09-845-416-27
; Sequence 27, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 27
; LENGTH: 5149
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-27

Query Match 100.0%; Score 1501; DB 10; Length 5149;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGAAGATCTAGAACAAAGAACAAAGTCAGGTCAGGTCAGTCTCTCTCCTCAGTGGTGGTAGT 60
Db 2257 AGAAGATCTAGAACAAAGAACAAAGTCAGGTCAGTCTCTCCTCAGTGGTGGTAGT 2316
QY 61 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAGAACAACTTAAGGTATTGG 120
Db 2317 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAGAACAACTTAAGGTATTGG 2376
QY 121 AGATCGATGGGCAAAACATCTGTAGATGGACAGAGACCGCTGGTCTTTTACAGACAT 180
Db 2377 AGATCGATGGGCAAAACATCTGTAGATGGACAGAGACCGCTGGTCTTTTACAGACAT 2436
QY 181 CCTTCTCAAAATGGCAACGCTTCTTACTGAAGAACAGTGCCTTTTAGTGCATGGCTTTCAGA 240
Db 2437 CCTTCTCAAAATGGCAACGCTTCTTACTGAAGAACAGTGCCTTTTAGTGCATGGCTTTCAGA 2496
QY 241 AAAAGAAGATGCAGTGAACAAGATTTCACACAACCTGGCTTTAAAGATCAAAATGAATGTT 300
Db 2497 AAAAGAAGATGCAGTGAACAAGATTTCACACAACCTGGCTTTAAAGATCAAAATGAATGTT 2556
QY 301 ATCAAGTCTTCAAAAACCTGGCCGTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 360
Db 2557 ATCAAGTCTTCAAAAACCTGGCCGTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 2616
QY 361 GGGCAAACTGTATTCACTCAAAACAAGATCTTCTTTCAACACTGAAGATAAGTCAAGTAC 420
Db 2617 GGGCAAACTGTATTCACTCAAAACAAGATCTTCTTTCAACACTGAAGATAAGTCAAGTAC 2676

QY 421 CCAGAGACGGAAGCATGGCTGGATAAATTTGCCCGGTGTGGGATAATTTAGTCCAAA 480
Db |||||
QY 2677 CCAGAGACGGAAGCATGGCTGGATAAATTTGCCCGGTGTGGGATAATTTAGTCCAAA 2736
Db |||||
QY 481 ACTTGAAAAGAGTACAGACAGACTCATAGATTACTGCAACAGATTCCCTCGGACCTGGA 540
Db |||||
QY 2737 ACTTGAAAAGAGTACAGACAGACTCATAGATTACTGCAACAGATTCCCTCGGACCTGGA 2796
Db |||||
QY 541 AAAGTTTCTTGCTGGCTTACAGAAAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTAC 600
Db |||||
QY 2797 AAAGTTTCTTGCTGGCTTACAGAAAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTAC 2856
Db |||||
QY 601 CCGTAAGGAAGGCTCCTAGAGACTCCAAAGGAGTAAAGAGCTGATGAAACATGGA 660
Db |||||
QY 2857 CCGTAAGGAAGGCTCCTAGAGACTCCAAAGGAGTAAAGAGCTGATGAAACATGGA 2916
Db |||||
QY 661 AGACCTCCAAAGGTGAAATTAAGCTCAGACAGATGTTTATCACAACCTGGATGAAACAG 720
Db |||||
QY 2917 AGACCTCCAAAGGTGAAATTAAGCTCAGACAGATGTTTATCACAACCTGGATGAAACAG 2976
Db |||||
QY 721 CCAAAAAATCCTGAGATCCCTGGAGGTTCCGATGATGCGAGTCTCTTACAAAGAGCTTT 780
Db |||||
QY 2977 CCAAAAAATCCTGAGATCCCTGGAGGTTCCGATGATGCGAGTCTCTTACAAAGAGCTTT 3036
Db |||||
QY 781 GGATAACATGAACCTCAAGTGGAGTGAATTCGGAAGGAAAGTCTCTCAACATTAGGTCCCA 840
Db |||||
QY 3037 GGATAACATGAACCTCAAGTGGAGTGAATTCGGAAGGAAAGTCTCTCAACATTAGGTCCCA 3096
Db |||||
QY 841 TTTGGAAGCCAGTCTGACCAAGTGGAGGCTCTGCACTTCTCTGCGAGGAACTTCTGCT 900
Db |||||
QY 3097 TTTGGAAGCCAGTCTGACCAAGTGGAGGCTCTGCACTTCTCTGCGAGGAACTTCTGCT 3156
Db |||||
QY 901 GTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACTTATGGAGGCGACTTCC 960
Db |||||
QY 3157 GTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACTTATGGAGGCGACTTCC 3216
Db |||||
QY 961 AGCAGTTCAAGACAGAACCGATGTACATAGGGCTTCAAGAGGGAATTTGAAACCTAAAGA 1020
Db |||||
QY 3217 AGCAGTTCAAGACAGAACCGATGTACATAGGGCTTCAAGAGGGAATTTGAAACCTAAAGA 3276
Db |||||
QY 1021 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCGCTTTGGA 1080
Db |||||
QY 3277 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCGCTTTGGA 3336
Db |||||
QY 1081 AGGACTAGAGAACTCTACAGAGGCCAGAGAGCTGCCTCTGAGGAGAGAGCCAGAA 1140
Db |||||
QY 3337 AGGACTAGAGAACTCTACAGAGGCCAGAGAGCTGCCTCTGAGGAGAGAGCCAGAA 3396
Db |||||
QY 1141 TGTCACTCGGCTTCTACGAAAGCAGCTGAGGAGGTCAATCTAGTGGGAAAATTTGAA 1200
Db |||||
QY 3397 TGTCACTCGGCTTCTACGAAAGCAGCTGAGGAGGTCAATCTAGTGGGAAAATTTGAA 3456
Db |||||
QY 1201 CCTGCACTCCGCTGACTGGCAGAGAAAATAGATGAGACCTTTGAAAGACTCCAGGAACT 1260
Db |||||
QY 3457 CCTGCACTCCGCTGACTGGCAGAGAAAATAGATGAGACCTTTGAAAGACTCCAGGAACT 3516
Db |||||
QY 1261 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATC 1320
Db |||||
QY 3517 TCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATC 3576
Db |||||
QY 1321 CTGGCAGCCCGTGGGCGATCTCCTCATTTGACTCTCTCCAGATCACCTCGAGAAAGTCAA 1380
Db |||||
QY 3577 CTGGCAGCCCGTGGGCGATCTCCTCATTTGACTCTCTCCAGATCACCTCGAGAAAGTCAA 3636
Db |||||
QY 1381 GGCACCTTCGAGAGAAAATTCGGCTCTGAAAGAGAACGTCGAGCCACGTCATGACCTTGC 1440
Db |||||
QY 3637 GGCACCTTCGAGAGAAAATTCGGCTCTGAAAGAGAACGTCGAGCCACGTCATGACCTTGC 3696
Db |||||
QY 1441 TCGCCAGCTTACCACTTTGGGCAATTCAGCTCTCACCCGTATTAACCTCAGCACTCTCGGAAGA 1500
Db |||||
QY 3697 TCGCCAGCTTACCACTTTGGGCAATTCAGCTCTCACCCGTATTAACCTCAGCACTCTCGGAAGA 3756
Db |||||
QY 1501 C 1501

Db 3757 C 3757

RESULT 3

US-09-845-416-6
; Sequence 6, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 3999
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-6

Query Match 66.6%; Score 1000.2; DB 10; Length 3999;
Best Local Similarity 99.7%; Pred. No. 1.3e-299;
Matches 1002; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 497 GCACAGACTCATAGATTACTGCAACAGTTCCCTCGGACCTGGAAAAGTTTCTTGCCTGG 556
Db |||||
QY 1813 GTACCTACTCATAGATTACTGCAACAGTTCCCTCGGACCTGGAAAAGTTTCTTGCCTGG 1872
Db |||||
QY 557 CTTACAGAAAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTACCCGTAGGAAAGGCTC 616
Db |||||
QY 1873 CTTACAGAAAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTACCCGTAGGAAAGGCTC 1932
Db |||||
QY 617 CTAGAGACTCCAAGGGAGTAAAGAGAGCTGATGAAACAAATGGCAAGACCTCCAAAGGTGAA 676
Db |||||
QY 1933 CTAGAGACTCCAAGGGAGTAAAGAGAGCTGATGAAACAAATGGCAAGACCTCCAAAGGTGAA 1992
Db |||||
QY 677 ATTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACAGCCAAAATCCTGAGA 736
Db |||||
QY 1993 ATTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACAGCCAAAATCCTGAGA 2052
Db |||||
QY 737 TCCCTGGAAGGTTCCGATGATGAGTCCCTGTTACAAAAGACGTTTGGATAACATGAACCTTC 796
Db |||||
QY 2053 TCCCTGGAAGGTTCCGATGATGAGTCCCTGTTACAAAAGACGTTTGGATAACATGAACCTTC 2112
Db |||||
QY 797 AAGTGGAGTGAACTTCGGAAGAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCT 856
Db |||||
QY 2113 AAGTGGAGTGAACTTCGGAAGAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCT 2172
Db |||||
QY 857 GACCACTGGAAGCGTCTGCACTTTCTCTGCAAGAACTTCTGGTGTGGCTACAGCTGAAA 916
Db |||||
QY 2173 GACCACTGGAAGCGTCTGCACTTTCTCTGCAAGAACTTCTGGTGTGGCTACAGCTGAAA 2232
Db |||||
QY 917 GATGATGAATTAAGCCGGCAGGACCTTATTTGGAGGCGACTTTCCAGCAGTTTCCAGAGCAG 976
Db |||||
QY 2233 GATGATGAATTAAGCCGGCAGGACCTTATTTGGAGGCGACTTTCCAGCAGTTTCCAGAGCAG 2292
Db |||||
QY 977 AACGATGTACATAGGGCCCTTCAAGAGGGAATTTGAAAACCTAAAGAACCTGTAAATCATGAGT 1036
Db |||||
QY 2293 AACGATGTACATAGGGCCCTTCAAGAGGGAATTTGAAAACCTAAAGAACCTGTAAATCATGAGT 2352
Db |||||
QY 1037 ACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTTGGAGGAGCTAGAGAACTC 1096
Db |||||
QY 2353 ACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTTGGAGGAGCTAGAGAACTC 2412
Db |||||
QY 1097 TACCAGGAGCCAGAGAGTGCCTCTCTGAGGAGAGAGCCAGCAATGTCTACTCGGCTTCTA 1156
Db |||||
QY 2413 TACCAGGAGCCAGAGAGTGCCTCTCTGAGGAGAGAGCCAGCAATGTCTACTCGGCTTCTA 2472
Db |||||

QY 1157 CGAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAAATTGAACCTGCACCTCGCTGAC 1216
DB 2473 CGAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAAATTGAACCTGCACCTCGCTGAC 2532
QY 1217 TGGCAGAGAAAAATAGATGAGACCCCTTGAAGAGACTCCAGGAACTTCAAGAGGCCACGGAT 1276
DB 2533 TGGCAGAGAAAAATAGATGAGACCCCTTGAAGAGACTCCAGGAACTTCAAGAGGCCACGGAT 2592
QY 1277 GAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGG 1336
DB 2593 GAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGG 2652
QY 1337 GATCTCCTCATTGACTCTCTCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAA 1396
DB 2653 GATCTCCTCATTGACTCTCTCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAA 2712
QY 1397 ATTGGCCCTCTGAAAGAGAACCTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCCT 1456
DB 2713 ATTGGCCCTCTGAAAGAGAACCTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCCT 2772
QY 1457 TTGGGCATTGAGCTCTCACCGTATTAACCTCAGCACTCTTGAAGAC 1501
DB 2773 TTGGGCATTGAGCTCTCACCGTATTAACCTCAGCACTCTTGAAGAC 2817

RESULT 4

US-09-845-416-28
; Sequence 28, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
; LENGTH: 4966
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-28

Query Match 66.6%; Score 1000.2; DB 10; Length 4966;
Best Local Similarity 99.7%; Pred. No. 1.5e-299;
Matches 1002; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 497 GCACAGACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAGTTTCTTGCTGG 556
DB 2570 GTACCTACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAGTTTCTTGCTGG 2629
QY 557 CTTACAGAAGCTGAAACAACTGCCAATGCTCTACAGGATGCTACCCGTAAGGAAAGGCTC 616
DB 2630 CTTACAGAAGCTGAAACAACTGCCAATGCTCTACAGGATGCTACCCGTAAGGAAAGGCTC 2689
QY 617 CTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGSCAAGACCTCCCAAGGTGAA 676
DB 2690 CTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGSCAAGACCTCCCAAGGTGAA 2749
QY 677 ATTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACACAGCCAAATAATCTTGAGA 736
DB 2750 ATTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACACAGCCAAATAATCTTGAGA 2809
QY 737 TCCCTGGAAGTTCCGATGATGCGAGTCTGTTACAAAGACGTTTGATAACATGAACTTC 796
DB 2810 TCCCTGGAAGTTCCGATGATGCGAGTCTGTTACAAAGACGTTTGATAACATGAACTTC 2869
QY 797 AAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGGTCCTCCATTTGGAAGCCAGTTCT 856
DB 2870 AAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGGTCCTCCATTTGGAAGCCAGTTCT 2929

QY 857 GACCAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAA 916
DB 2930 GACCAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAA 2989
QY 917 GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTCCAGAAAGCAG 976
DB 2990 GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTCCAGAAAGCAG 3049
QY 977 AACGATGTACATAGGGCCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTAAATCATGAGT 1036
DB 3050 AACGATGTACATAGGGCCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTAAATCATGAGT 3109
QY 1037 ACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCCTTTGGAAGGACTAGAGAAACTC 1096
DB 3110 ACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCCTTTGGAAGGACTAGAGAAACTC 3169
QY 1097 TACCAGGAGCCCAGAGAGCTGCTCCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTA 1156
DB 3170 TACCAGGAGCCCAGAGAGCTGCTCCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTA 3229
QY 1157 CGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAAATTGAACCTGCACCTCGCTGAC 1216
DB 3230 CGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAAATTGAACCTGCACCTCGCTGAC 3289
QY 1217 TGGCAGAGAAAAATAGATGAGACCCCTTGAAGAGACTCCAGGAACTTCAAGAGGCCACGGAT 1276
DB 3290 TGGCAGAGAAAAATAGATGAGACCCCTTGAAGAGACTCCAGGAACTTCAAGAGGCCACGGAT 3349
QY 1277 GAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTTGGCAGCCCGTGGG 1336
DB 3350 GAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTTGGCAGCCCGTGGG 3409
QY 1337 GATCTCCTCATTGACTCTCTCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAA 1396
DB 3410 GATCTCCTCATTGACTCTCTCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAA 3469
QY 1397 ATTGGCCCTCTGAAAGAGAACCTGAGCCACGTCATGACCTTGTCTGCCAGCTTACCCT 1456
DB 3470 ATTGGCCCTCTGAAAGAGAACCTGAGCCACGTCATGACCTTGTCTGCCAGCTTACCCT 3529
QY 1457 TTGGGCATTGAGCTCTCACCGTATTAACCTCAGCACTCTTGAAGAC 1501
DB 3530 TTGGGCATTGAGCTCTCACCGTATTAACCTCAGCACTCTTGAAGAC 3574

RESULT 5

US-09-845-416-34
; Sequence 34, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 4990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-34

Query Match 66.6%; Score 1000.2; DB 10; Length 4990;
Best Local Similarity 99.7%; Pred. No. 1.5e-299;
Matches 1002; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 497 GCACAGACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAGTTTCTTGCTGG 556

Db 2594 GTACCTACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAAAAGTTTCTTGGCTGG 2653
QY 557 CTTACAGAAGCTGAAACAACTGCCAATGTCTTACAGGATGCTTACCCGTAAAGGAAGGCTC 616
Db 2654 CTTACAGAAGCTGAAACAACTGCCAATGTCTTACAGGATGCTTACCCGTAAAGGAAGGCTC 2713
QY 617 CTAGAAGACTCCAAAGGGAGTAAAGAGCTGATGAAACAAATGGCAAGACCTCCAAAGTGAA 676
Db 2714 CTAGAAGACTCCAAAGGGAGTAAAGAGCTGATGAAACAAATGGCAAGACCTCCAAAGTGAA 2773
QY 677 ATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAAAACAGCCAAAAAATCCTGAGA 736
Db 2774 ATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAAAACAGCCAAAAAATCCTGAGA 2833
QY 737 TCCCTGGAAGGTTCCGATGATGCAGTCTGTGTTACAAAGACGTTTGGATAACATGAATTC 796
Db 2834 TCCCTGGAAGGTTCCGATGATGCAGTCTGTGTTACAAAGACGTTTGGATAACATGAATTC 2893
QY 797 AAGTGGAGTGAATTCGGAATAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCT 856
Db 2894 AAGTGGAGTGAATTCGGAATAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCT 2953
QY 857 GACCAGTGGAGGCTGTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAA 916
Db 2954 GACCAGTGGAGGCTGTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAA 3013
QY 917 GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCAGCAGTTCAGAAAGCAG 976
Db 3014 GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCAGCAGTTCAGAAAGCAG 3073
QY 977 AACGATGTACATAGGGCCCTTCAAGAGGGAATTTGAAAACTAAAGAACCTGTAATCATGAGT 1036
Db 3074 AACGATGTACATAGGGCCCTTCAAGAGGGAATTTGAAAACTAAAGAACCTGTAATCATGAGT 3133
QY 1037 ACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACTC 1096
Db 3134 ACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACTC 3193
QY 1097 TACCAGGAGCCAGAGAGCTGCCTCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTA 1156
Db 3194 TACCAGGAGCCAGAGAGCTGCCTCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTA 3253
QY 1157 CGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTTGAACCTGCACCTCGCTGAC 1216
Db 3254 CGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTTGAACCTGCACCTCGCTGAC 3313
QY 1217 TGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGGAATTTCAAGAGGCCACGGAT 1276
Db 3314 TGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGGAATTTCAAGAGGCCACGGAT 3373
QY 1277 GAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGGC 1336
Db 3374 GAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGATCCTGGCAGCCCGTGGGC 3433
QY 1337 GATCTCCTCAATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAA 1396
Db 3434 GATCTCCTCAATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAA 3493
QY 1397 ATTGCGCCTCTGAAAGAGAACGTTGAGCCACGTCAATGACCTTGTGCGCCAGCTTACCAC 1456
Db 3494 ATTGCGCCTCTGAAAGAGAACGTTGAGCCACGTCAATGACCTTGTGCGCCAGCTTACCAC 3553
QY 1457 TTGGGCATTACGCTCTCACCGTATATAACCTCAGCACTCTGGAAGAC 1501
Db 3554 TTGGGCATTACGCTCTCACCGTATATAACCTCAGCACTCTGGAAGAC 3598

RESULT 6

US-10-149-736-42

; Sequence 42, Application US/10149736

; Publication No. US20030216332A1

; GENERAL INFORMATION:

; APPLICANT: Chamberlain, Jeffrey S.

; APPLICANT: Harper, Scott Q.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 42
; LENGTH: 8689
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-42

Query Match 66.6%; Score 1000.2; DB 16; Length 8689;

Best Local Similarity 99.7%; Pred. No. 2.2e-299;

Matches 1002; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 497 GCACAGACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAAAAGTTTCTTGCCTGG 556
Db 2993 GAAGAACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAAAAGTTTCTTGCCTGG 3052
QY 557 CTTACAGAAGCTGAAACAACTGCCAATGTCTTACAGGATGCTACCCGTAAAGGAAGGCTC 616
Db 3053 CTTACAGAAGCTGAAACAACTGCCAATGTCTTACAGGATGCTACCCGTAAAGGAAGGCTC 3112
QY 617 CTAGAAGACTCCAAAGGGAGTAAAGAGCTGATGAAACAAATGGCAAGACCTCCAAAGTGAA 676
Db 3113 CTAGAAGACTCCAAAGGGAGTAAAGAGCTGATGAAACAAATGGCAAGACCTCCAAAGTGAA 3172
QY 677 ATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAAAACAGCCAAAAAATCCTGAGA 736
Db 3173 ATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAAAACAGCCAAAAAATCCTGAGA 3232
QY 737 TCCCTGGAAGGTTCCGATGATGCAGTCTGTGTTACAAAGACGTTTGGATAACATGAATTC 796
Db 3233 TCCCTGGAAGGTTCCGATGATGCAGTCTGTGTTACAAAGACGTTTGGATAACATGAATTC 3292
QY 797 AAGTGGAGTGAACTTCGGAATAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCT 856
Db 3293 AAGTGGAGTGAACTTCGGAATAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCT 3352
QY 857 GACCAGTGGAAAGCGTCTGCACCTTTCTCTGAGGAACTTCTGGTGTGGCTACAGCTGAAA 916
Db 3353 GACCAGTGGAAAGCGTCTGCACCTTTCTCTGAGGAACTTCTGGTGTGGCTACAGCTGAAA 3412
QY 917 GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCAGCAGTTCAGAAAGCAG 976
Db 3413 GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCAGCAGTTCAGAAAGCAG 3472
QY 977 AACGATGTACATAGGGCCTTCAAGAGGGAATTTGAAAACTAAAGAACCTGTAATCATGAGT 1036
Db 3473 AACGATGTACATAGGGCCTTCAAGAGGGAATTTGAAAACTAAAGAACCTGTAATCATGAGT 3532
QY 1037 ACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACTC 1096
Db 3533 ACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACTC 3592
QY 1097 TACCAGGAGCCAGAGAGCTGCCTCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTA 1156
Db 3593 TACCAGGAGCCAGAGAGCTGCCTCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTA 3652
QY 1157 CGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAAATTTGAACCTGCACCTCCGCTGAC 1216
Db 3653 CGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAAATTTGAACCTGCACCTCCGCTGAC 3712
QY 1217 TGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGGAATTTCAAGAGGCCACGGAT 1276
| | | | |

Db 3713 TGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGAT 3772
QY 1277 GAGCTGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGC 1336
Db 3773 GAGCTGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGC 3832
QY 1337 GATCTCCTCATTTGACTCTCTCCAGATCACCTCGAGAAAGTCAAGGCACCTTCAGAGGAA 1396
Db 3833 GATCTCCTCATTTGACTCTCTCCAGATCACCTCGAGAAAGTCAAGGCACCTTCAGAGGAA 3892
QY 1397 ATTGGCCTCTGAAAGAGAACCTGAGCCACGTCATGACCTTGCTGGCCAGCTTACCACT 1456
Db 3893 ATTGGCCTCTGAAAGAGAACCTGAGCCACGTCATGACCTTGCTGGCCAGCTTACCACT 3952
QY 1457 TTGGGCATTGACTCTCAACCGTATACCTCAGCACTCTGGAAGAC 1501
Db 3953 TTGGGCATTGACTCTCAACCGTATACCTCAGCACTCTGGAAGAC 3997

RESULT 7

US-09-845-416-1
; Sequence 1, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 11058
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-1

Query Match 66.6%; Score 1000.2; DB 10; Length 11058;
Best Local Similarity 99.7%; Pred. No. 2.7e-299;
Matches 1002; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 497 GCACAGACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAAAGTTTCTTGCCCTGG 556
Db 8053 GAAGAACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAAAGTTTCTTGCCCTGG 8112
QY 557 CTTACAGAAGCTGAAACAACTGCCAATGTCTACAGGATGCTACCCGTAAGGAAAGGCTC 616
Db 8113 CTTACAGAAGCTGAAACAACTGCCAATGTCTACAGGATGCTACCCGTAAGGAAAGGCTC 8172
QY 617 CTAGAAGACTCCAAAGGAGTAAGAGAGCTGATGAAACAATGGCAAGACCTCCAAAGGTGAA 676
Db 8173 CTAGAAGACTCCAAAGGAGTAAGAGAGCTGATGAAACAATGGCAAGACCTCCAAAGGTGAA 8232
QY 677 ATTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACAGCCAAAATCTCTGAGA 736
Db 8233 ATTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACAGCCAAAATCTCTGAGA 8292
QY 737 TCCCTGGAAGGTTCCGATGATGCGAGTCTCTCAACATTAGGTCCCAATTTGGAAGCCAGTTCT 796
Db 8293 TCCCTGGAAGGTTCCGATGATGCGAGTCTCTCAACATTAGGTCCCAATTTGGAAGCCAGTTCT 8352
QY 797 AAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGGTCCCAATTTGGAAGCCAGTTCT 856
Db 8353 AAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGGTCCCAATTTGGAAGCCAGTTCT 8412
QY 857 GACCAGTGAAGCGTCTGCACCTTTCTGCGAGGAACCTTCTGCTGGTGTGGCTACAGCTGAAA 916
Db 8413 GACCAGTGAAGCGTCTGCACCTTTCTGCGAGGAACCTTCTGCTGGTGTGGCTACAGCTGAAA 8472
QY 917 GATGATGAATTAAGCCGGCAGGACCTATTGGAGGCGACTTTTCCAGCAGTTTCCAGAAGCAG 976

Db 8473 GATGATGAATTAAGCCGGCAGGACCTATTGGAGGCGACTTCCAGCAGTTCCAGAAGCAG 8532
QY 977 AACGATGTACATAGGGCCCTTCAAGAGGGAATTGAAAATAAAGAACTGTATCATGAGT 1036
Db 8533 AACGATGTACATAGGGCCCTTCAAGAGGGAATTGAAAATAAAGAACTGTATCATGAGT 8592
QY 1037 ACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCCTTTGGAAGGACTAGAGAACTC 1096
Db 8593 ACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCCTTTGGAAGGACTAGAGAACTC 8652
QY 1097 TACCAGAGAGCCAGAGAGCTGCTCTCTGAGGAGAGAGAGCCAGAAATGTCACTCGGCTTCTA 1156
Db 8653 TACCAGAGAGCCAGAGAGCTGCTCTCTGAGGAGAGAGAGCCAGAAATGTCACTCGGCTTCTA 8712
QY 1157 CGAAAGCAGGCTGAGGAGGCTCAATACTAGTGGGAAAAAATTGAACCTGCACTCCGCTGAC 1216
Db 8713 CGAAAGCAGGCTGAGGAGGCTCAATACTAGTGGGAAAAAATTGAACCTGCACTCCGCTGAC 8772
QY 1217 TGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACTTCAAGAGGCCACGGAT 1276
Db 8773 TGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACTTCAAGAGGCCACGGAT 8832
QY 1277 GAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGC 1336
Db 8833 GAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGC 8892
QY 1337 GATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGACTTCGAGGAGAA 1396
Db 8893 GATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGACTTCGAGGAGAA 8952
QY 1397 ATTGCGCCTCTGAAAGAGAACGTCGAGCCACGTCATGACCTTGTCTGCGCAGCTTACCCT 1456
Db 8953 ATTGCGCCTCTGAAAGAGAACGTCGAGCCACGTCATGACCTTGTCTGCGCAGCTTACCCT 9012
QY 1457 TTGGGCATTGAGCTCTCACCGTATACCTCAGCACTCTGGAAGAC 1501
Db 9013 TTGGGCATTGAGCTCTCACCGTATACCTCAGCACTCTGGAAGAC 9057

RESULT 8

US-10-149-736-44
; Sequence 44, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 44
; LENGTH: 11443
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-44

Query Match 66.6%; Score 1000.2; DB 16; Length 11443;
Best Local Similarity 99.7%; Pred. No. 2.7e-299;
Matches 1002; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 497 GCACAGACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAAAGTTTCTTGCCCTGG 556
Db 5747 GAAGAACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAAAGTTTCTTGCCCTGG 5806

QY 557 CTTACAGAAAGCTGAAACAACTGCAATGTCTACAGGATGTACCCGTAAAGGAAGGCTC 616
Db |||||
QY 5807 CTTACAGAAAGCTGAAACAACTGCAATGTCTACAGGATGTACCCGTAAAGGAAGGCTC 5866
Db |||||
QY 617 CTAGAAAGCTCCAAGGGAGTAAAGAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAA 676
Db |||||
QY 5867 CTAGAAAGCTCCAAGGGAGTAAAGAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAA 5926
Db |||||
QY 677 ATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAACAGCCAAAATCCTGAGA 736
Db |||||
QY 5927 ATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAACAGCCAAAATCCTGAGA 5986
Db |||||
QY 737 TCCCTGGAAGGTTCCGATGATGAGTCTCTGTTACAAAGACGTTTGGATAACATGAATTC 796
Db |||||
QY 5987 TCCCTGGAAGGTTCCGATGATGAGTCTCTGTTACAAAGACGTTTGGATAACATGAATTC 6046
Db |||||
QY 797 AAGTGAAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGTCCCATTTTGGAAAGCCAGTTCT 856
Db |||||
QY 6047 AAGTGAAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGTCCCATTTTGGAAAGCCAGTTCT 6106
Db |||||
QY 857 GACCAAGTGAAGCGTCTGCACCTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAA 916
Db |||||
QY 6107 GACCAAGTGAAGCGTCTGCACCTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAA 6166
Db |||||
QY 917 GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGGCAGCTTCCAGCAGTTTCAGAAAGCAG 976
Db |||||
QY 6167 GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGGCAGCTTCCAGCAGTTTCAGAAAGCAG 6226
Db |||||
QY 977 AACGATGTACATAGGGCTTCAAGAGGGGAATTTGAAAACTAAAGAACCTGTAATCATGAGT 1036
Db |||||
QY 6227 AACGATGTACATAGGGCTTCAAGAGGGGAATTTGAAAACTAAAGAACCTGTAATCATGAGT 6286
Db |||||
QY 1037 ACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAAGGACTAGAGAAACTC 1096
Db |||||
QY 6287 ACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAAGGACTAGAGAAACTC 6346
Db |||||
QY 1097 TACCAGAGCCAGAGAGCTGCTCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTA 1156
Db |||||
QY 6347 TACCAGAGCCAGAGAGCTGCTCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTA 6406
Db |||||
QY 1157 CGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTTGAACCTGCACCTCCGCTGAC 1216
Db |||||
QY 6407 CGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTTGAACCTGCACCTCCGCTGAC 6466
Db |||||
QY 1217 TGGCAGAGAAAAATAGATGAGACCTTGAAGACTCCAGGAATTTCAAGAGGCCACGGAT 1276
Db |||||
QY 6467 TGGCAGAGAAAAATAGATGAGACCTTGAAGACTCCAGGAATTTCAAGAGGCCACGGAT 6526
Db |||||
QY 1277 GAGCTGACCTCAAGCTGCGGCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGC 1336
Db |||||
QY 6527 GAGCTGACCTCAAGCTGCGGCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGC 6586
Db |||||
QY 1337 GATCTCTCATTTGACTCTCTCCAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAA 1396
Db |||||
QY 6587 GATCTCTCATTTGACTCTCTCCAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAA 6646
Db |||||
QY 1397 ATTGGCCCTCTGAAAGAGAACGTTGAGCCACGTCAATGACCTTGTCTGCCAGCTTACCCT 1456
Db |||||
QY 6647 ATTGGCCCTCTGAAAGAGAACGTTGAGCCACGTCAATGACCTTGTCTGCCAGCTTACCCT 6706
Db |||||
QY 1457 TTGGGCATTGAGCTCTCACCGTATAACCTCAGCACTCTTGGAAAGAC 1501
Db |||||
QY 6707 TTGGGCATTGAGCTCTCACCGTATAACCTCAGCACTCTTGGAAAGAC 6751
Db |||||

RESULT 9
US-10-149-736-47
; Sequence 47, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott Q.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences

; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 47
; LENGTH: 12057
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-47

Query Match 66.6%; Score 1000.2; DB 16; Length 12057;
Best Local Similarity 99.7%; Pred. No. 2.8e-299;
Matches 1002; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 497 GCACAGACTCATAGATTACTGCAACAGTTCCTGACCTGGACCTGGAACAAAGTTTCTTGCCTGG 556
Db |||||
QY 8261 GAAGAAACTCATAGATTACTGCAACAGTTCCTGACCTGGACCTGGAACAAAGTTTCTTGCCTGG 8320
Db |||||
QY 557 CTTACAGAAAGCTGAAACAACTGCCAATGTCTTATCACAACCTGGATGAAACAATGGCAAGACCTCCAAGGTGAA 616
Db |||||
QY 8321 CTTACAGAAAGCTGAAACAACTGCCAATGTCTTATCACAACCTGGATGAAACAATGGCAAGACCTCCAAGGTGAA 8380
Db |||||
QY 617 CTAGAAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAA 676
Db |||||
QY 8381 CTAGAAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAA 8440
Db |||||
QY 677 ATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAACAATGGCAAGACCTCCAAGGTGAA 736
Db |||||
QY 8441 ATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAACAATGGCAAGACCTCCAAGGTGAA 8500
Db |||||
QY 737 TCCCTGGAAGGTTCCGATGATGAGTCTCTGTTACAAAGACGTTTGGATAACATGAATTC 796
Db |||||
QY 8501 TCCCTGGAAGGTTCCGATGATGAGTCTCTGTTACAAAGACGTTTGGATAACATGAATTC 8560
Db |||||
QY 797 AAGTGAAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGTCCCATTTTGGAAAGCCAGTTCT 856
Db |||||
QY 8561 AAGTGAAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGTCCCATTTTGGAAAGCCAGTTCT 8620
Db |||||
QY 857 GACCAAGTGAAGCGTCTGCACCTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAA 916
Db |||||
QY 8621 GACCAAGTGAAGCGTCTGCACCTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAA 8680
Db |||||
QY 917 GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGGCAGCTTTCAGCAGTTTCAGAAAGCAG 976
Db |||||
QY 8681 GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGGCAGCTTTCAGCAGTTTCAGAAAGCAG 8740
Db |||||
QY 977 AACGATGTACATAGGGCTTCAAGAGGGGAATTTGAAAACTAAAGAACCTGTAATCATGAGT 1036
Db |||||
QY 8741 AACGATGTACATAGGGCTTCAAGAGGGGAATTTGAAAACTAAAGAACCTGTAATCATGAGT 8800
Db |||||
QY 1037 ACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAAGGACTAGAGAAACTC 1096
Db |||||
QY 8801 ACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAAGGACTAGAGAAACTC 8860
Db |||||
QY 1097 TACCAGAGCCAGAGAGCTGCTCTGAGGAGAGAGCCCGCAGAAATGTCACTCGGCTTCTA 1156
Db |||||
QY 8861 TACCAGAGCCAGAGAGCTGCTCTGAGGAGAGAGCCCGCAGAAATGTCACTCGGCTTCTA 8920
Db |||||
QY 1157 CGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTTGAACCTTCGACCTCCGCTGAC 1216
Db |||||
QY 8921 CGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTTGAACCTTCGACCTCCGCTGAC 8980
Db |||||
QY 1217 TGGCAGAGAAAAATAGATGAGACCTTGAAGAGACTCCAGGAACCTTCAAGAGGCCACGGAT 1276
Db |||||
QY 8981 TGGCAGAGAAAAATAGATGAGACCTTGAAGAGACTCCAGGAACCTTCAAGAGGCCACGGAT 9040
Db |||||

Qy	1277	GAGCTGGACCTCAAGTGC	CGCCAAAGCTGAGGTGATCAAGGGGATCCTGGCAGCCCGTGGGC	1336
Db	9041	GAGCTGGACCTCAAGTGC	CGCCAAAGCTGAGGTGATCAAGGGGATCCTGGCAGCCCGTGGGC	9100
Qy	1337	GATCTCCTCATTTGACTCT	CTCTCCAAGATCACCTCGAGAAAAGTCAAGGCACCTTCGAGGAGAA	1396
Db	9101	GATCTCCTCATTTGACTCT	CTCTCCAAGATCACCTCGAGAAAAGTCAAGGCACCTTCGAGGAGAA	9160
Qy	1397	ATTGCGCCTCTGAAAAGAA	CGTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCACCT	1456
Db	9161	ATTGCGCCTCTGAAAAGAA	CGTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCACCT	9220
Qy	1457	TTGGGCATTGAGCTCTCAC	CGGTATAACCTCAGCACTCTGGAAGAC	1501
Db	9221	TTGGGCATTGAGCTCTCAC	CGGTATAACCTCAGCACTCTGGAAGAC	9265

RESULT 10

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US-09-782-378A-22
; Sequence 22, Application US/09782378A
; Patent No. US20020102731A1
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/09/782,378A
; CURRENT FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 22
; LENGTH: 13957
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-782-378A-22

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Query Match          65.6%; Score 1000.2; DB 9; Length 13957;
Best Local Similarity 99.7%; Pred. No. 3.1e-299;
Matches 1002; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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QY	497	GCACAGACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAAAGTTTCTTTGGCTGG	556
Db	8261	GAAGAACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAAAGTTTCTTTGGCTGG	8320
QY	557	CTTACAGAAGCTGAAACAACACTGCCAATGTCTTACAGGATGCTACCCGTGAAGGAAAGGCTC	616
Db	8321	CTTACAGAAGCTGAAACAACACTGCCAATGTCTTACAGGATGCTACCCGTGAAGGAAAGGCTC	8380
QY	617	CTAGAAGACTCCAAAGGAGTAAAGAGAGCTGATGAAACAATGGCAAGACCTCCAAAGGTGAA	676
Db	8381	CTAGAAGACTCCAAAGGAGTAAAGAGAGCTGATGAAACAATGGCAAGACCTCCAAAGGTGAA	8440
QY	677	ATTGAAGCTCACACAGATGTTTATCACAACTGGATGAAAAACAGCCAAAAAATCCTGAGA	736
Db	8441	ATTGAAGCTCACACAGATGTTTATCACAACTGGATGAAAAACAGCCAAAAAATCCTGAGA	8500
QY	737	TCCCTGGAAGGTTCCGATGATGCAGTCCCTGTTACAAAGACGTTTGGATAACATGAACCTTC	796
Db	8501	TCCCTGGAAGGTTCCGATGATGCAGTCCCTGTTACAAAGACGTTTGGATAACATGAACCTTC	8560
QY	797	AAGTGGAGTGAACCTTCGAAAAAAGTCTCTCAACATTAGGTCCCATTTTGGAAAGCCAGTTCT	856
Db	8561	AAGTGGAGTGAACCTTCGAAAAAAGTCTCTCAACATTAGGTCCCATTTTGGAAAGCCAGTTCT	8620
QY	857	GACCAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAA	916
Db	8621	GACCAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAA	8680
QY	917	GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTTCAAGAGCAG	976

Db	8681	GATGATGAATTAAACCGGCAGGCACCTATTGGAGGCGACTTTCAGGCGAGTTCAGAAAGCAG	8740
QY	977	AACGATGTACATAGGGCCCTTCAAGAGGGGAATTGAAAACTAAAGAACCTCTGTAATCATGAGT	1036
Db	8741	AACGATGTACATAGGGCCCTTCAAGAGGGGAATTGAAAACTAAAGAACCTCTGTAATCATGAGT	8800
QY	1037	ACTCTTGAGACTGTACGAATATTTCTGCACAGCAGCAGCCCTTTGGAAAGGACTAGAGAAACTC	1096
Db	8801	ACTCTTGAGACTGTACGAATATTTCTGCACAGCAGCAGCCCTTTGGAAAGGACTAGAGAAACTC	8860
QY	1097	TACCAGGAGCCACAGAGAGCTGCCCTCCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTA	1156
Db	8861	TACCAGGAGCCACAGAGAGCTGCCCTCCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTA	8920
QY	1157	CGAAAGCAGGCTGAGGAGGTCAAATACTGAGTGGGAAAAAATTGAAACCTTGCACTCCGCTGAC	1216
Db	8921	CGAAAGCAGGCTGAGGAGGTCAAATACTGAGTGGGAAAAAATTGAAACCTTGCACTCCGCTGAC	8980
QY	1217	TGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACTTCAAGAGGCCACCGAT	1276
Db	8981	TGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACTTCAAGAGGCCACCGAT	9040
QY	1277	GAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCCGTGGGC	1336
Db	9041	GAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCCGTGGGC	9100
QY	1337	GATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAAAGTCAAGGCACCTTCGAGGAGAA	1396
Db	9101	GATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAAAGTCAAGGCACCTTCGAGGAGAA	9160
QY	1397	ATTGCGCCTCTGAAAAGAGAAAGTGAAGCCACGTCAATGACCTTGTCTGCGCAGCTTACCCT	1456
Db	9161	ATTGCGCCTCTGAAAAGAGAAAGTGAAGCCACGTCAATGACCTTGTCTGCGCAGCTTACCCT	9220
QY	1457	TTGGGCATTTCAGCTCTCACCCGTATAACCTCAGCACTCTTGAAGAC	1501
Db	9221	TTGGGCATTTCAGCTCTCACCCGTATAACCTCAGCACTCTTGAAGAC	9265

RESULT 11

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US-09-880-107-2284
; Sequence 2284, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Darci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880,107
; PRIOR FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2284
; LENGTH: 13957
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 M1
US-09-880-107-2284

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Query Match          66.6%; Score 1000.2; DB 9; Length 13957;
Best Local Similarity 99.7%; Pred: No. 3.1e-299;
Matches 1002: Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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QY 497 GCACAGACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAAAGTTTCTTGCCTGG 556

Db 8261 GAAGAACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAAAAGTTTCTTGCCTGG 8320
Qy 557 CTTACAGAAGCTGAAACAACCTGCCAATGTCCTACAGGATGCTACCCGTAAAGAAAGGCTC 616
Db 8321 CTTACAGAAGCTGAAACAACCTGCCAATGTCCTACAGGATGCTACCCGTAAAGAAAGGCTC 8380
Qy 617 CTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAA 676
Db 8381 CTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAA 8440
Qy 677 ATTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAAAACAGCCAAAAATCCTGAGA 736
Db 8441 ATTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAAAACAGCCAAAAATCCTGAGA 8500
Qy 737 TCCCTGGAAGGTTCCGATGATGAGTCCCTGTTTACAAAGACGTTTGGATAACATGAACTTC 796
Db 8501 TCCCTGGAAGGTTCCGATGATGAGTCCCTGTTTACAAAGACGTTTGGATAACATGAACTTC 8560
Qy 797 AAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGTCCCATTTTGGAAAGCAGTTTCT 856
Db 8561 AAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGTCCCATTTTGGAAAGCAGTTTCT 8620
Qy 857 GACCAGTGAAGCGTCTGCACCTTTCTCGCAGGAACCTCTGGTGTGGCTACAGTGAAA 916
Db 8621 GACCAGTGAAGCGTCTGCACCTTTCTCGCAGGAACCTCTGGTGTGGCTACAGTGAAA 8680
Qy 917 GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTCCAGCAGTTCAGAAGCAG 976
Db 8681 GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTCCAGCAGTTCAGAAGCAG 8740
Qy 977 AACGATGTACATAGGGCTTCAAGAGGGAAATTGAAAACTTAAAGAACCTGTATCATGAGT 1036
Db 8741 AACGATGTACATAGGGCTTCAAGAGGGAAATTGAAAACTTAAAGAACCTGTATCATGAGT 8800
Qy 1037 ACTCTTGAGACTGTACGAATATTTCTGACAGAGCGCCCTTTGGAAGGACTAGAGAACTC 1096
Db 8801 ACTCTTGAGACTGTACGAATATTTCTGACAGAGCGCCCTTTGGAAGGACTAGAGAACTC 8860
Qy 1097 TACCAGGAGCCAGAGAGCTGCTGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1156
Db 8861 TACCAGGAGCCAGAGAGCTGCTGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 8920
Qy 1157 CGAAAGCAGGCTGAGGAGGTTCAATGAGTGGGAAAAATTCAGCTCCGCTGAC 1216
Db 8921 CGAAAGCAGGCTGAGGAGGTTCAATGAGTGGGAAAAATTCAGCTCCGCTGAC 8980
Qy 1217 TGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACTTCAAGAGGCCACGGAT 1276
Db 8981 TGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACTTCAAGAGGCCACGGAT 9040
Qy 1277 GAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGC 1336
Db 9041 GAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGC 9100
Qy 1337 GATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAA 1396
Db 9101 GATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAA 9160
Qy 1397 ATTGGGCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCACCT 1456
Db 9161 ATTGGGCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCACCT 9220
Qy 1457 TTGGGATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGAC 1501
Db 9221 TTGGGATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGAC 9265

RESULT 12

US-10-149-736-1

; Sequence 1, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.

; APPLICANT: Harper, Scott Q.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 13957
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-149-736-1

Query Match 66.6%; Score 1000.2; DB 16; Length 13957;
Best local Similarity 99.7%; Pred. No. 3.1e-299;
Matches 1002; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 497 GCACAGACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAAAAGTTTCTTGCCTGG 556
Db 8261 GAAGAACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAAAAGTTTCTTGCCTGG 8320
Qy 557 CTTACAGAAGCTGAAACAACCTGCCAATGTCCTACAGGATGCTACCCGTAAAGAAAGGCTC 616
Db 8321 CTTACAGAAGCTGAAACAACCTGCCAATGTCCTACAGGATGCTACCCGTAAAGAAAGGCTC 8380
Qy 617 CTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAA 676
Db 8381 CTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAA 8440
Qy 677 ATTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAAAACAGCCAAAAATCCTGAGA 736
Db 8441 ATTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAAAACAGCCAAAAATCCTGAGA 8500
Qy 737 TCCCTGGAAGGTTCCGATGATGAGTCCCTGTTTACAAAGACGTTTGGATAACATGAACTTC 796
Db 8501 TCCCTGGAAGGTTCCGATGATGAGTCCCTGTTTACAAAGACGTTTGGATAACATGAACTTC 8560
Qy 797 AAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGTCCCATTTTGGAAAGCAGTTTCT 856
Db 8561 AAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGTCCCATTTTGGAAAGCAGTTTCT 8620
Qy 857 GACCAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACCTCTGCTGTGGCTACAGCTGAAA 916
Db 8621 GACCAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACCTCTGCTGTGGCTACAGCTGAAA 8680
Qy 917 GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCAGCAGTTCAGAAGCAG 976
Db 8681 GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCAGCAGTTCAGAAGCAG 8740
Qy 977 AACGATGTACATAGGGCTTCAAGAGGGAAATTGAAAACTTAAAGAACCTGTATCATGAGT 1036
Db 8741 AACGATGTACATAGGGCTTCAAGAGGGAAATTGAAAACTTAAAGAACCTGTATCATGAGT 8800
Qy 1037 ACTCTTGAGACTGTACGAATATTTCTGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1096
Db 8801 ACTCTTGAGACTGTACGAATATTTCTGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 8860
Qy 1097 TACCAGGAGCCAGAGAGCTGCTGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1156
Db 8861 TACCAGGAGCCAGAGAGCTGCTGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 8920
Qy 1157 CGAAAGCAGGCTGAGGAGGTTCAATGAGTGGGAAAAATTCAGCTCCGCTGAC 1216
Db 8921 CGAAAGCAGGCTGAGGAGGTTCAATGAGTGGGAAAAATTCAGCTCCGCTGAC 8980
Qy 1217 TGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACTTCAAGAGGCCACGGAT 1276
Db 8981 TGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACTTCAAGAGGCCACGGAT 9040

QY 1277 GAGCTGGACCTCAAGCTGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGG 1336
Db 9041 GAGCTGGACCTCAAGCTGGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGG 9100
QY 1337 GATCTCCTCATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAA 1396
Db 9101 GATCTCCTCATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAA 9160
QY 1397 ATTGGCCCTCTGAAAGAGAACGCTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCAC 1456
Db 9161 ATTGGCCCTCTGAAAGAGAACGCTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCAC 9220
QY 1457 TTGGGCATTTCAGCTCTCACCGTATACCTCAGCACTCTTGGAGAC 1501
Db 9221 TTGGGCATTTCAGCTCTCACCGTATACCTCAGCACTCTTGGAGAC 9265

RESULT 13
US-10-342-887-434
; Sequence 434, Application US/10342887
; Publication No. US20040058340A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter S.
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Christopher J.
; APPLICANT: Van 't Veer, Laura Johanna
; APPLICANT: Van de Vijver, Marc J.
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-188-999
; CURRENT APPLICATION NUMBER: US/10/342,887
; CURRENT FILING DATE: 2003-01-15
; PRIOR APPLICATION NUMBER: 60/298,918
; PRIOR FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/380,710
; PRIOR FILING DATE: 2002-05-14
; PRIOR APPLICATION NUMBER: 10/172,118
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 434
; LENGTH: 14069
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-342-887-434

Query Match 66.6%; Score 1000.2; DB 13; Length 14069;
Best Local Similarity 99.7%; Pred. No. 3.1e-299;
Matches 1002; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 497 GCACAGACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAAGTTTCTTGCCTGG 556
Db 8373 GAAGAAACTCATAGATTACTGCAACAGTTCCCTGGACCTGGAAAGTTTCTTGCCTGG 8432
QY 557 CTTACAGAAGCTGAAACAACTGCCAATGTCTACAGGATGCTACCCGTAAAGGAGGCTC 616
Db 8433 CTTACAGAAGCTGAAACAACTGCCAATGTCTACAGGATGCTACCCGTAAAGGAGGCTC 8492
QY 617 CTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAAATGGCAAGACCTCCAAGGTGAA 676
Db 8493 CTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAAATGGCAAGACCTCCAAGGTGAA 8552
QY 677 ATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAACAGCCCAAAAATCCTGAGA 736
Db 8553 ATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAACAGCCCAAAAATCCTGAGA 8612
QY 737 TCCTGGAAGGTTCCGATGATGTCAGTCTCTGTACAAAGACGTTTGGATACATGAACCTC 796
Db 8613 TCCTGGAAGGTTCCGATGATGTCAGTCTCTGTACAAAGACGTTTGGATACATGAACCTC 8672
QY 797 AAGTGGAGTGAACCTTCGGAAGAAAGTCTCTCAACATTAGGTCCCATTTTGGAGCCAGTTCT 856

Db 8673 AAGTGGAGTGAACCTTCGGAAGAAAGTCTCTCAACATTAGGTCCCATTTTGGAGCCAGTTCT 8732
QY 857 GACCAGTGGAAAGCGTCTGCACACCTTTCTCTGCAGGAACTTTCTGGTGTGGCTACAGCTGAAA 916
Db 8733 GACCAGTGGAAAGCGTCTGCACACCTTTCTCTGCAGGAACTTTCTGGTGTGGCTACAGCTGAAA 8792
QY 917 GATGATGAATTAAGCCGCGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTCAGAAGCAG 976
Db 8793 GATGATGAATTAAGCCGCGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTCAGAAGCAG 8852
QY 977 AACGATGTACATAGGGCCCTTCAAGAGGGAATTTGAAAACCTAAAGAACCTTGAATCATGAGT 1036
Db 8853 AACGATGTACATAGGGCCCTTCAAGAGGGAATTTGAAAACCTAAAGAACCTTGAATCATGAGT 8912
QY 1037 ACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACTC 1096
Db 8913 ACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACTC 8972
QY 1097 TACCAGGAGCCCGAGAGAGCTGCCTCCTGAGGAGAGAGAGCCAGAAATGTCACTCGGCTTCTA 1156
Db 8973 TACCAGGAGCCCGAGAGAGCTGCCTCCTGAGGAGAGAGAGCCAGAAATGTCACTCGGCTTCTA 9032
QY 1157 CGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTTGAACCTGCACTCCGCTGAC 1216
Db 9033 CGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTTGAACCTGCACTCCGCTGAC 9092
QY 1217 TGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACTTCAAGAGGCCACCGAT 1276
Db 9093 TGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACTTCAAGAGGCCACCGAT 9152
QY 1277 GAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTTGGCAGCCCGTGGG 1336
Db 9153 GAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTTGGCAGCCCGTGGG 9212
QY 1337 GATCTCCTCATTGACTCTCTCCAAGATCACTTCCAGAAAGTCAAGGCACCTTCGAGGAGAA 1396
Db 9213 GATCTCCTCATTGACTCTCTCCAAGATCACTTCCAGAAAGTCAAGGCACCTTCGAGGAGAA 9272
QY 1397 ATTGGCCCTCTGAAAGAGAACGCTGAGCCACGTCATGACCTTGCTGCGCAGCTTACCAC 1456
Db 9273 ATTGGCCCTCTGAAAGAGAACGCTGAGCCACGTCATGACCTTGCTGCGCAGCTTACCAC 9332
QY 1457 TTGGGCATTTCAGCTCTCACCGTATACCTCAGCACTCTTGGAGAC 1501
Db 9333 TTGGGCATTTCAGCTCTCACCGTATACCTCAGCACTCTTGGAGAC 9377

RESULT 14
US-10-172-118-434
; Sequence 434, Application US/10172118
; Publication No. US20030224374A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Hongyue
; APPLICANT: He, Yudong
; APPLICANT: Linsley, Peter
; APPLICANT: Mao, Mao
; APPLICANT: Roberts, Chris
; APPLICANT: Van 't Veer, Laura
; APPLICANT: Van de Vijver, Marc
; APPLICANT: Bernards, Rene
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
; FILE REFERENCE: 9301-175-999
; CURRENT APPLICATION NUMBER: US/10/172,118
; CURRENT FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: 60/380,770
; PRIOR FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 2699
; SEQ ID NO 434
; LENGTH: 14069
; TYPE: DNA
; ORGANISM: Homo sapiens
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: NM_000109

; DATABASE ENTRY DATE: 2001-06-18									
US-10-172-118-434									
Query Match 66.6%; Score 1000.2; DB 13; Length 14069;									
Best Local Similarity 99.7%; Pred. No. 3.1e-299;									
Matches 1002; Conservative 0; Mismatches 3; Indels 0; Gaps 0;									
Qy	497	GCACAGACTCATAGATTACTGCAACAGTTCCCTGAGCTGCAAGAGTTTCTTGCCTGG	556						
Db	8373	GAAGAACTCATAGATTACTGCAACAGTTCCCTGAGCTGCAAGAGTTTCTTGCCTGG	8432						
Qy	557	CTTACAGAAAGCTGAAACAACTGCCAATGTCCTACAGGATGCTACCCGTAAGGAAAGGCTC	616						
Db	8433	CTTACAGAAAGCTGAAACAACTGCCAATGTCCTACAGGATGCTACCCGTAAGGAAAGGCTC	8492						
Qy	617	CTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAA	676						
Db	8493	CTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAA	8552						
Qy	677	ATTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAAAACAGCCAAAAATCCTGAGA	736						
Db	8553	ATTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAAAACAGCCAAAAATCCTGAGA	8612						
Qy	737	TCCCTGGAAGGTTCCGATGATGAGTCTGTTTACAAAGAGTTTGGATAACATGAATTC	796						
Db	8613	TCCCTGGAAGGTTCCGATGATGAGTCTGTTTACAAAGAGTTTGGATAACATGAATTC	8672						
Qy	797	AAGTGGAGTGAATTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAAGCCAGTTCT	856						
Db	8673	AAGTGGAGTGAATTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAAGCCAGTTCT	8732						
Qy	857	GACCAGTGAAGCGTCTGCACCTTCTCTGCAGGAACCTCTGGTGTGGCTACAGCTGAAA	916						
Db	8733	GACCAGTGAAGCGTCTGCACCTTCTCTGCAGGAACCTCTGGTGTGGCTACAGCTGAAA	8792						
Qy	917	GATGATGAATTAAAGCCGGCAGSCACCTATTGGAGGGGACTTTCCAGCAGTTCAGAAGCAG	976						
Db	8793	GATGATGAATTAAAGCCGGCAGSCACCTATTGGAGGGGACTTTCCAGCAGTTCAGAAGCAG	8852						
Qy	977	AACGATGTACATAGGGCCCTTCAAGAGGGAAATTGAAAACTAAAGAACCTGTATCATGAGT	1036						
Db	8853	AACGATGTACATAGGGCCCTTCAAGAGGGAAATTGAAAACTAAAGAACCTGTATCATGAGT	8912						
Qy	1037	ACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAAACTC	1096						
Db	8913	ACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAAACTC	8972						
Qy	1097	TACCAGAGCCCGAGAGAGCTGCCTCCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTA	1156						
Db	8973	TACCAGAGCCCGAGAGAGCTGCCTCCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTA	9032						
Qy	1157	CGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTTGAACCTGCACCTCCGCTGAC	1216						
Db	9033	CGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTTGAACCTGCACCTCCGCTGAC	9092						
Qy	1217	TGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGAT	1276						
Db	9093	TGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGAT	9152						
Qy	1277	GAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGC	1336						
Db	9153	GAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGC	9212						
Qy	1337	GATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAA	1396						
Db	9213	GATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAA	9272						
Qy	1397	ATTGCGCTCTGAAAGAGAACGTTGAGCCACGTCATATGACCTTGTCTCGCCAGCTTACCAC	1456						
Db	9273	ATTGCGCTCTGAAAGAGAACGTTGAGCCACGTCATATGACCTTGTCTCGCCAGCTTACCAC	9332						
Qy	1457	TTGGGCAATTCAGCTCTCACCCGTATAACCTCAGCACTCTTGAAGAC	1501						

Db 9333 TTGGGCATTGAGCTCTCACCGTATAAACCTCAGCACTCTGGAAAGAC 9377									
RESULT 15									
US-10-342-887-981									
; Sequence 981, Application US/10342887									
; Publication No. US20040058340A1									
; GENERAL INFORMATION:									
; APPLICANT: Dai, Hongyue									
; APPLICANT: He, Yudong									
; APPLICANT: Linsley, Peter S.									
; APPLICANT: Mao, Mao									
; APPLICANT: Roberts, Christopher J.									
; APPLICANT: Van 't Veer, Laura Johanna									
; APPLICANT: Van de Vijver, Marc J.									
; APPLICANT: Bernards, Rene									
; TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients									
; FILE REFERENCE: 9301-188-999									
; CURRENT APPLICATION NUMBER: US/10/342,887									
; PRIOR FILING DATE: 2003-01-15									
; PRIOR APPLICATION NUMBER: 60/298,918									
; PRIOR FILING DATE: 2001-06-18									
; PRIOR APPLICATION NUMBER: 60/380,710									
; PRIOR FILING DATE: 2002-05-14									
; PRIOR APPLICATION NUMBER: 10/172,118									
; PRIOR FILING DATE: 2002-06-14									
; NUMBER OF SEQ ID NOS: 2699									
; SEQ ID NO 981									
; LENGTH: 14082									
; TYPE: DNA									
; ORGANISM: Homo sapiens									
US-10-342-887-981									
Query Match 66.6%; Score 1000.2; DB 13; Length 14082;									
Best Local Similarity 99.7%; Pred. No. 3.1e-299;									
Matches 1002; Conservative 0; Mismatches 3; Indels 0; Gaps 0;									
Qy	497	GCACAGACTCATAGATTACTGCAACAGTTCCCTGAGCTGCAAGAGTTTCTTGCCTGG	556						
Db	8386	GAAGAACTCATAGATTACTGCAACAGTTCCCTGAGCTGCAAGAGTTTCTTGCCTGG	8445						
Qy	557	CTTACAGAAAGCTGAAACAACTGCCAATGTCCTACAGGATGCTACCCGTAAGGAAAGGCTC	616						
Db	8446	CTTACAGAAAGCTGAAACAACTGCCAATGTCCTACAGGATGCTACCCGTAAGGAAAGGCTC	8505						
Qy	617	CTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAA	676						
Db	8506	CTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAA	8565						
Qy	677	ATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAAAACAGCCAAAAATCCTGAGA	736						
Db	8566	ATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAAAACAGCCAAAAATCCTGAGA	8625						
Qy	737	TCCCTGGAAGGTTCCGATGATGAGTCCCTGTTTACAAAGACGTTTGGATAACATGAATTC	796						
Db	8626	TCCCTGGAAGGTTCCGATGATGAGTCCCTGTTTACAAAGACGTTTGGATAACATGAATTC	8685						
Qy	797	AAGTGGAGTGAATTCGGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAGCCAGTTCT	856						
Db	8686	AAGTGGAGTGAATTCGGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAGCCAGTTCT	8745						
Qy	857	GACCAGTGAAGCGTCTGCACCTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAA	916						
Db	8746	GACCAGTGAAGCGTCTGCACCTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAA	8805						
Qy	917	GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTTCAGAAGCAG	976						
Db	8806	GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTTCAGAAGCAG	8865						
Qy	977	AACGATGTACATAGGGCCCTTCAAGAGGGAAATTGAAAACTAAAGAACCTGTATCATGAGT	1036						
Db	8866	AACGATGTACATAGGGCCCTTCAAGAGGGAAATTGAAAACTAAAGAACCTGTATCATGAGT	8925						

QY	1037	ACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAAACTC	1096
Db	8926	ACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAAACTC	8985
QY	1097	TACCAGGAGCCAGAGAGTGCCTCCTGAGGAGAGAGCCCGAGAAATGTCTACGCGCTTCTA	1156
Db	8986	TACCAGGAGCCAGAGAGTGCCTCCTGAGGAGAGAGCCCGAGAAATGTCTACGCGCTTCTA	9045
QY	1157	CGAAAGCAGGCTGAGGAGTCAATACTGAGTGGGAAAAAATTGAACCTGCACTCCGCTGAC	1216
Db	9046	CGAAAGCAGGCTGAGGAGTCAATACTGAGTGGGAAAAAATTGAACCTGCACTCCGCTGAC	9105
QY	1217	TGGCAGAGAAAAATAGATGAGACCCCTTGAAAAGACTCCAGGAACTTCAAGAGGCCACGGAT	1276
Db	9106	TGGCAGAGAAAAATAGATGAGACCCCTTGAAAAGACTCCAGGAACTTCAAGAGGCCACGGAT	9165
QY	1277	GAGCTGGACCTCAAGCTGCGCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGC	1336
Db	9166	GAGCTGGACCTCAAGCTGCGCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGC	9225
QY	1337	GATCTCCTCATTGACTCTCTCCAAGATCACCTCGAGAAAAGTCAAGGCACTTCGAGGAGAA	1396
Db	9226	GATCTCCTCATTGACTCTCTCCAAGATCACCTCGAGAAAAGTCAAGGCACTTCGAGGAGAA	9285
QY	1397	ATTGCGCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCACT	1456
Db	9286	ATTGCGCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCACT	9345
QY	1457	TTGGGCATTTCAGCTCTCACCGTATAACCTCAGCACTCTTGGAGAC	1501
Db	9346	TTGGGCATTTCAGCTCTCACCGTATAACCTCAGCACTCTTGGAGAC	9390

Db 3187 TCCCTGGAAGGTTCCGATGATGAGTCCCTGTTTACAAAGACGTTTGGATAACATGAACCTTC 3246
QY 797 AAGTGGAGTGAACTTCGAAAAAGTCTCTCAACATTAGGTCCCATTTTGAAGCCAGTTCT 856
Db 3247 AAGTGGAGTGAACTTCGAAAAAGTCTCTCAACATTAGGTCCCATTTTGAAGCCAGTTCT 3306
QY 857 GACCAGTGAAGCGTCTGCACCTTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAA 916
Db 3307 GACCAGTGAAGCGTCTGCACCTTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAA 3366
QY 917 GATGATGAATTAAGCCGGCAGGCACCTATTGAGAGGGAATTTGAAACCTTGAAGCAG 976
Db 3367 GATGATGAATTAAGCCGGCAGGCACCTATTGAGAGGGAATTTGAAACCTTGAAGCAG 3426
QY 977 AACGATGTACATAGGGCCCTCAAGAGGGAATTTGAAACCTTGAAGCAG 1036
Db 3427 AACGATGTACATAGGGCCCTCAAGAGGGAATTTGAAACCTTGAAGCAG 3486
QY 1037 ACTCTTGAGACTGTACGAATATTTCTGACAGAGGAGCCCTTTGGAAGGAGTGTGAAACCTC 1096
Db 3487 ACTCTTGAGACTGTACGAATATTTCTGACAGAGGAGCCCTTTGGAAGGAGTGTGAAACCTC 3546
QY 1097 TACCAGGAGCCAGAGAGTGCCTCTCTGAGGAGAGAGCCCAAGATGTCTACTCGGCTTCTA 1156
Db 3547 TACCAGGAGCCAGAGAGTGCCTCTCTGAGGAGAGAGCCCAAGATGTCTACTCGGCTTCTA 3606
QY 1157 CGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAAATTGAACCTGCACCTCCGCTGAC 1216
Db 3607 CGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAAATTGAACCTGCACCTCCGCTGAC 3666
QY 1217 TGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCACGGAT 1276
Db 3667 TGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCACGGAT 3726
QY 1277 GAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGGC 1336
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QY 1337 GATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAA 1396
Db 3787 GATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAA 3846
QY 1397 ATTGGCCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCAC 1456
Db 3847 ATTGGCCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCAC 3906
QY 1457 TTGGGCATTGAGCTCTCACCCTGATATACCTCAGCACTCTTGAAGAC 1501
Db 3907 TTGGGCATTGAGCTCTCACCCTGATATACCTCAGCACTCTTGAAGAC 3951

RESULT 2

US-09-484-970B-60
; Sequence 60, Application US/09484970B
; Patent No. 6426186
; GENERAL INFORMATION:
; APPLICANT: Jones, Karen A.
; APPLICANT: Volkmuth, Wayne
; APPLICANT: Walker, Michael G.
; TITLE OF INVENTION: BONE REMODELING GENES
; FILE REFERENCE: PB-0014 US
; CURRENT APPLICATION NUMBER: US/09/484,970B
; CURRENT FILING DATE: 2000-01-18
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: PERL Program
; SEQ ID NO 60
; LENGTH: 13977
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6426186 229357.11CB1
; NAME/KEY: unsure

; LOCATION: 11721-11761, 12294, 13969
; OTHER INFORMATION: a, t, c, g, or other
US-09-484-970B-60
Query Match 66.6%; Score 1000.2; DB 4; Length 13977;
Best Local Similarity 99.7%; Pred. No. 9.7e-310;
Matches 1002; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 497 GCACAGACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAAAGTTTCTTGCCTGG 556
Db 8261 GAAGAAACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAAAGTTTCTTGCCTGG 8320
QY 557 CTTACAGAAGCTGAAACAACTGCCAATGTCTTACAGGATGCTACCCGTAAAGGAGGCTC 616
Db 8321 CTTACAGAAGCTGAAACAACTGCCAATGTCTTACAGGATGCTACCCGTAAAGGAGGCTC 8380
QY 617 CTAGAAGACTCCAAAGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAA 676
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QY 737 TCCCTGGAAGGTTCCGATGATGAGTCCCTGTTTACAAAGACGTTTGGATAACATGAACCTC 796
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QY 917 GATGATGAATTAAGCCGGCAGGCACCTATTGAGAGCGACCTTCCAGCGAGTTTCAAGACGAG 976
Db 8681 GATGATGAATTAAGCCGGCAGGCACCTATTGAGAGCGACCTTCCAGCGAGTTTCAAGACGAG 8740
QY 977 AACGATGTACATAGGGCCCTCAAGAGGGAATTTGAAGAACTTAAAGAACTTAAAGAACTT 1036
Db 8741 AACGATGTACATAGGGCCCTCAAGAGGGAATTTGAAGAACTTAAAGAACTTAAAGAACTT 8800
QY 1037 ACTCTTGAGACTGTACGAATATTTCTGACAGAGAGCCCTTTGGAAGGAGTGTGAAAGAACTC 1096
Db 8801 ACTCTTGAGACTGTACGAATATTTCTGACAGAGAGCCCTTTGGAAGGAGTGTGAAAGAACTC 8860
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Db 8921 CGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAAATTGAACCTGCACCTCCGCTGAC 8980
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Db 9101 GATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGAA 9160
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QY 1457 TTGGGCATTGAGCTCTCACCCTGATATACCTCAGCACTCTTGAAGAC 1501

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765 TGTACAAAAGACGTTTGGATAAACATGAACCTTCAAGTGGAGTGAACTTCGGAAGAAAGTCTC 824
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6045 TTCAGGAACCTTCTGTTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTA 5986
945 TTGAGGCGGACTTTCCAGCAGTTTCAAGAGCAGAACGATGTACATAGGGCCTTCAAGAGGG 1004
5985 TCGTGGTGTATTTCCAGCAGTTTCAAGAGCAGAACGATGTACATAGGGCCTTCAAGAGGG 5926
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1065 CAGAGCAGCCTTTGGAGGAGTAAAGAACTCTACAGAGCCCGAGAGGCTGCCTCTCTG 1124
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5805 AAGAAAGAGCTCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAACGCTG 5746
1185 AGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTG 1244
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1245 AAAGACTCCAGGAACCTTCAAGAGCCCGAGGATGAGTGGACCTCAAGCTGCGCCCAAGCTG 1304
5685 AAAGACTCCAGGAACCTTCAAGAGCCCGAGGATGAGTGGACCTCAAGCTGCGCCCAAGCTG 5626
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5625 AGGTGATCAAGGGATCCTGGAGCCCGCTGGCGGATCTCTCATTTGACTCTCTCCAGATC 5566
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5565 ACCTTGAAAAAGTCAAGGCACCTTCGAGGAGAAATTTGCACCTCTTAAAGAGAAATGTCAATC 5506
1425 ACGTCAATGACCTTGTCTGCCAGCTTACCACTTTTGGGCAATCAGCTCTCACCGTATAAC 1484
5505 GTGTCAATGACCTTGTCAATCATCATGACCTGACCACTGGGCAATTCAGCTCTCACCTTATAAC 5446
1485 TCAGCACTCTGGAAGA 1500
5445 TCAGCACTTTGGAAGA 5430

RESULT 4
US-09-427-048A-10/c
; Sequence 10, Application US/09427048A
; Patent No. 6203975
; GENERAL INFORMATION:
; APPLICANT: Trustees of the University of Pennsylvania
; Wilson, James M.
; Fisher, Krishna J.
; Chen, Shu-Jen
; Weitzman, Matthew
; TITLE OF INVENTION: Improved Adenovirus Virus and
; Methods of Use Thereof
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr, P O Box 457
; CITY: Spring House
; STATE: Pennsylvania

9221 TTGGGCATTACGCTCTCACCGTATAACCTCAGCACTCTGGAAGAC 9265
US-08-836-022A-10/c
; Sequence 10, Application US/08836022A
; Patent No. 6001557
; GENERAL INFORMATION:
; APPLICANT: Trustees of the University of Pennsylvania
; APPLICANT: Wilson, James M.
; APPLICANT: Fisher, Krishna J.
; APPLICANT: Chen, Shu-Jen
; APPLICANT: Weitzman, Matthew
; TITLE OF INVENTION: Improved Adenovirus Virus and
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr, P O Box 457
; CITY: Spring House
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,022A
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/331,381
; FILING DATE: 28-OCT-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GNVPN.008PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9200
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19307 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: CDNA
US-08-836-022A-10

Query Match 56.4%; Score 847.2; DB 3; Length 19307;
Best Local Similarity 88.6%; Pred. No. 1.6e-260;
Matches 918; Conservative 0; Mismatches 118; Indels 0; Gaps 0;
QY 465 ATAAATTTAGTCCAAAAACCTTGAAAAAGAGTACAGCAGACACTCATAGATTACTGCAACAGT 524
Db 6465 ATAAAGAGTAAGTGAGCAAGAGGCTGCTTTGGAGAGAACTCATAGATTACTGCAAGCAGT 6406
QY 525 TCCCTGACCTGGAAAAAGTTTCTTGCCTGGCTTACAGAAAGCTGAAACAACTGCCAATG 584
Db 6405 TCCCTGACCTGGAGAAAGTTTCTTCTGCTGGATTACGGAAGCAGAAACAACTGCCAATG 6346
QY 585 TCCTACAGGATGCTACCCGTAAGGAAAGGCTCTAGAGACTCCAGGGAGTAAAGAGC 644
Db 6345 TCCTACAGGACGCTTCCCGTAAGGAGAAAGCTCTAGAGACTCCAGGGAGTCAAGAGC 6286
QY 645 TGATGAACAATGGCAAGACCTCCAAAGGTGAAATTTGAAGCTCACACAGATGTTATCACA 704
Db 6285 TGATGAACAATGGCAAGATCTCCAAAGGAGAAATTTGAAGCTCACACAGATATCTATCACA 6226
QY 705 ACCTGGATGAAAAACAGCCAAAAATCCTGAGATCCCTGGAGGTTCCGATGATGAGTCC 764

Matches 565; Conservative 0; Mismatches 421; Indels 9; Gaps 1;	
QY	516 TGCAACAGTTCCTGACCTGGAAAGTTTCTTGGCTTACGAGCTGAAACAA 575
Db	3069 TGCAGGCTCTCGCAGAGATCTGAAACTTCTGAACTGATCCAAAGACGAGACCA 3128
QY	576 CTGCCAATGTCTACAGGATGCTACCCGTAAGGAAAGCTCTAGAGACTCCAAGGGAG 635
Db	3129 CAGTGAATGTGCTTGTGGATGCTCTCATCGGAGAAATGCTTTCAGGATAGTATCTTGG 3188
QY	636 TAAAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAAATGAACTCACACAGATG 695
Db	3189 CCAGGGAACCTCAACACAGCAGATGCAGGACATCCAGGCAGAAATGATGCCACAATGACA 3248
QY	696 TTTATCACAACTGGATGAAAAACAGCCAAAAATCCTGAGATCCCTGGAAGTTCCGATG 755
Db	3249 TATTTAAAGCATTTGACGGAACAGGCAGAGATGGTAAAGCTTTGGGAAATTTCTGAAG 3308
QY	756 ATGCAGTCTGTTACAAAGACGTTTGGATAACATGAACCTTCAAGTGGAGTGAACCTTCGGA 815
Db	3309 AGGCTACTATGCTTCAACATCGACTGGATGATGATGAACCAAGATGGAATGACTTAAAG 3368
QY	816 AAAAGTCTCTCAACATTAGTCCCATTTTGGAAAGCCAGTCTTGACCAAGTGGAGCTGTGC 875
Db	3369 CAAAATCTGTAGCATCAGGCCCCATTTGGAGGCCAGCGCTGAGAAGTGGAAACAGTTGC 3428
QY	876 ACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGTGAAGATGATGAATTAAGCCGGC 935
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QY	936 AGGCACCTATTGGAGGGCACTTTCAGCAGTTCAGAGCAGAAACGATGTACATAGGGCCT 995
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Db	3549 TGAGACGGGAGTTAAAGGAGAAAGAAATATTCTGTCTCTGAATGCTGTGCACCAGGCCGAG 3608
QY	1056 TATTTCTGACAGAGCAGCCTTT-----GGAGGACTAGAGAACTCTACCAGGAGC 1106
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QY	1107 CCAGAGAGCTGCCTCCTGAGAGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGG 1166
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QY	1167 CTGAGGAGGTCAATACTAGTGGGAAAAATTTGAACCTGCACTCCGCTGACTGGCAGAGAA 1226
Db	3729 CTCTGAAAGTCAAAGAAAAATGGGAAAGTCTAAATGCTGTAACTAGCAATTTGGCAAAAGC 3788
QY	1227 AAATAGATGAGACCCCTTGAAGACTCCAGGAACTTCAAGAGGCCACGGAATGAGCTGGACC 1286
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QY	1287 TCAAGCTGCGCCAAGCTGAGGTGATCAAGGGATCCTGSCAGCCCGTGGCGGATCTCCTCA 1346
Db	3849 CTGACATGAAGGAGGCAGAGTCCGTGCGGAATGGCTGGAAGCCCGTGGGAGACTTACTCA 3908
QY	1347 TTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTTGGCCCTC 1406
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Db	3969 TCAACTTTAAAGTTAAACCGGTGAATGATTTATCCAGTCAGCTGTCTCCACITGACCTGC 4028
QY	1467 AGCTCTCACCGTATAACCTCAGCACTCTTGGAAAGAC 1501
Db	4029 ATCCCTCTCTAAAGATGTCTCGCAGCTAGATGAC 4063
RESULT 6	
US-09-091-501B-9	

; Sequence 9, Application US/09091501B	
; Patent No. 6518413	
; GENERAL INFORMATION:	
; APPLICANT: Tinsley, Jonathon M	
; APPLICANT: Davies, Kay E	
; TITLE OF INVENTION: Utrrophin gene expression	
; FILE REFERENCE: 620-42	
; CURRENT APPLICATION NUMBER: US/09/091,501B	
; CURRENT FILING DATE: 1998-06-18	
; PRIOR APPLICATION NUMBER: PCT/GB96/03156	
; PRIOR FILING DATE: 1996-12-19	
; PRIOR APPLICATION NUMBER: GB 9525962.8	
; PRIOR FILING DATE: 1995-12-19	
; PRIOR APPLICATION NUMBER: GB 9615797.9	
; PRIOR FILING DATE: 1996-07-26	
; PRIOR APPLICATION NUMBER: GB 9622174.2	
; PRIOR FILING DATE: 1996-10-24	
; NUMBER OF SEQ ID NOS: 15	
; SOFTWARE: PatentIn Ver. 2.1	
; SEQ ID NO 9	
; LENGTH: 10320	
; TYPE: DNA	
; ORGANISM: Artificial Sequence	
; FEATURE:	
; NAME/KEY: CDS	
; LOCATION: (11)..(10312)	
; FEATURE:	
; OTHER INFORMATION: Description of Artificial Sequence: Full length	
; OTHER INFORMATION: utrophin construct	
; FEATURE:	
; NAME/KEY: misc feature	
; LOCATION: (724)..(758)	
; OTHER INFORMATION: Precise residue is left open	
US-09-091-501B-9	
Query Match 19.5%; Score 293.4; DB 4; Length 10320;	
Best Local Similarity 56.8%; Pred. No. 5.9e-83;	
Matches 565; Conservative 0; Mismatches 421; Indels 9; Gaps 1;	
QY	516 TGCAACAGTTCCTGACCTGGACCTGGAAAAAGTTTCTTGGCTTACGAGCTGAAACAA 575
Db	7344 TGCAGGCCCTCTCGCAGAGATCTGAAAAACTTCTGAACTGGATCCAAAGAGCAGAGACCA 7403
QY	576 CTGCCAATGTCTACAGGATGCTACCCGTAAGGAAAGCTCCTAGAAAGCTCCAAGGGAG 635
Db	7404 CAGTGAATGTGCTTGTGGATGCTCTCATCGGAGAAATGCTCTTCAGGATAGTATCTTGG 7463
QY	636 TAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAAATTTGAAGCTCACACAGATG 695
Db	7464 CCAGGGAACCTCAACAGCAGATGCAGGACATCCAGGCAGAAATGATGCCACAATGACA 7523
QY	696 TTTATCACAACTGGATGAAACACAGCCAAAAATCCTGAGATCCCTGGAAGTTCCGATG 755
Db	7524 TATTTAAAGCATTTGACCGAAACAGGCAGAGATGGTAAAAGCTTTGGGAAATTTCTGAAG 7583
QY	756 ATGCAGTCTGTTACAAAGACGTTTGGATAACATGAACCTTCAAGTGGAGTGAACCTTCGGA 815
Db	7584 AGGCTACTATGCTTCAACATCGACTGGATGATATGAACCAAGATGGAATGACTTAAAG 7643
QY	816 AAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTCTGACCAGTGGAGCGTCTGC 875
Db	7644 CAAAATCTGCTAGCATCAGGGCCCATTTGGAGGCCAGCGCTGAGAAAGTGGACAGTTGC 7703
QY	876 ACCTTTCTCTGCAGGAACCTTCTGGTGGCTACAGCTGAAAGATGATGAATTAAGCCGC 935
Db	7704 TGATGTCTTTAGAAAGAACTGATCAAAATGGCTGAATATGAAAGATGAAGAGCTTAAGAAAC 7763
QY	936 AGGCACCTATTGGAGGGCACTTTCAGCAGATTCAGAAAGCAGACGATGTACATAGGGCCT 995
Db	7764 AAATGCCCTATTGGAGGAGATGTTCCAGCCCTTACAGCTCCAGTATGACCATTTGAAGGCC 7823
QY	996 TCAAGAGGGAAATTGAAAACTAAAGAACCTGTAATCATGAGTACTCTTGAGACTGTACGAA 1055

Db 7824 TGAGACGGGAGTTAAAGGAGAGAAAGAAATATTCTGTCTCTGAATGCTGTGACACGAGCCCGAG 7883
QY 1056 TATTCTTGACAGAGCAGCCCTTT-----GGAGGACTAGAGAAACTCTACACAGGAGC 1106
Db 7884 TTTTCTGGCTGATCAGCCAATTGAGGCCCTTGAAGAGCCCAAGAGAACTTACAATCAA 7943
QY 1107 CCGAGAGGCTGCTCTCTGAGAGAGAGCCAGAAATGTCACCTGGCTTCTACGAAAGCAGG 1166
Db 7944 AAACAGAAATTAATCTCTGAGAGAGAGCCCAAAAGATTGCCAAGCCATGCCCAACAGT 8003
QY 1167 CTGAGGAGGTCAATACCTGAGTGGGAAATAATTGAACCTGCACTCCGCTGACTGGCAGAGAA 1226
Db 8004 CTTCTGAAGTCAAAAGAAATAATGGAAAGTCTAAATGCTGTAACTAGCAATTGGCAAAAGC 8063
QY 1227 AAATAGATGAGACCCCTTGAAGACTCCAGGAACCTCAAGAGGCCACCGGATGAGCTGGACC 1286
Db 8064 AACTGGACAAGGCATTGGAGAACTCAGAGACCTGAGGAGCTATGGATGACCTGGACG 8123
QY 1287 TCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCTTGGCAGCCCGTGGCGGATCTCTCTCA 1346
Db 8124 CTGACATGAAGGAGGAGAGTCCGTGCGGAATGGCTGGAAGCCCGTGGAGACTTACTCA 8183
QY 1347 TTGACTCTCTCCAAGATCACTCGAGAGAAAGTCAAGGCACTTCGAGGAGAAATTCGCCCTC 1406
Db 8184 TTGACTCGCTGCAGGATCACTTGAATAATCATGGCATTTAGAGAGAAATTCACCAA 8243
QY 1407 TGAAGAGAAAGCTGAGCCAGCTCAATGACCTTGTCTGCCAGCTTACCACTTTGGGCAATTC 1466
Db 8244 TCAACTTTAAAGTTAAACCGGTGAATGATTTATCCAGTCAGCTGTCTCCACTTGACCTGC 8303
QY 1467 AGCTCTCACCGTATAACCTCAGCACTCTGGAAGAC 1501
Db 8304 ATCCCTCTCTAAAGATGTCTCGCCAGCTAGATGAC 8338

RESULT 7

US-09-976-594-93
; Sequence 93, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:
; APPLICANT: Furness, Michael
; APPLICANT: Buchbinder, Jenny
; TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
; FILE REFERENCE: PA-0041 US
; CURRENT APPLICATION NUMBER: US/09/976,594
; PRIOR FILING DATE: 2001-10-12
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 1143
; SOFTWARE: PERL Program
; SEQ ID NO 93
; LENGTH: 3915
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6673549 290344.1
US-09-976-594-93

Query Match 13.4%; Score 200.8; DB 4; Length 3915;
Best Local Similarity 56.0%; Pred. No. 1.6e-53;
Matches 400; Conservative 0; Mismatches 312; Indels 2; Gaps 1;
QY 787 CATGAACCTCAAGTGGAGTGAACCTTCGGAAGAAAGTCTCTCAACATTAGGTCCCATTTGGA 846
Db 544 CATGAATCTGTGTTGAATGAATAAAAAAGAGTCTCAACACCTCGCGCTCGCCTAGA 603
QY 847 AGCCAGTTCTGACCACTGGAAGCGTCTGCACTTCTCTGCAGGAATCTCTGGTGTGGCT 906
Db 604 GGCCTTCTCAGACCACTGGAAGCTTCAGCTCCCTCTTCAAGAGATTATTGACTGGCT 663
QY 907 ACAGCTGAAAGATGATGAATTAAGCCGGCAGGACCTATTGGAGGCGACTTTCCAGCAGT 966

Db 664 CAGCCAAAAGGATGAGGAGTTGTGAGCTCAGCTGCCCCCTACAGGGGATGTGGCCCTGGT 723
QY 967 TCAGAAGCAGAAACGATGTACATAGGGCCCTTCAAGAGGGGAATTTGAAACATAAAGAACCTGT 1026
Db 724 GCAACAGGAGAGGAGACACATCGGCCCTTTATGGAAGAAAGTCAAGTCTCGGGCCCCCTA 783
QY 1027 AATCATGAGTACTCTTGTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTTGAAGGACT 1086
Db 784 CATCTATTCTGTGTGAGTCTGAGTCTCAGGCTTCTCTGTCAGGACCCCATTTGAGGAGTT 843
QY 1087 AGAGAAACTCTACAGAGAGCCAGAGAGCTGCTCTGAGGAGAGAGCCAGAGAAATGTCAAC 1146
Db 844 AGAGGAGCTCTATTCTGAGAGCAAGATACCTCCCGAAACAGCGGATCCAGAAATCTCAG 903
QY 1147 TCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTGAGTGGGAAATAATTTGAACCTGCA 1206
Db 904 CCGCTTTGTATGGAAGCAGGCGACGCTGGCCAGTGAAGTGTGGGAGAAAGTTGACAGCCCG 963
QY 1207 CTCCGCTGACTGGCAGAGAAATAAGATGAGAGCCCTTGAAGACTCCAGGAACTTCAAGA 1266
Db 964 CTGTGTGACCCAGCACCGTCACTTGAAGCGGACTCTGGAGCAGCTCTTGGAGATTTCAGG 1023
QY 1267 GGCACCGGATGAGCTGACCTCAAGCTGCGCCAGCTGAGGTGATCAAGGGATCTCTGGCA 1326
Db 1024 G--CATGGAGGAACCTAAGCACTACTCTGAGCCAAAGCTGAGGGAGTCCGAGCCACTTGGGA 1081
QY 1327 GCGCGTGGCGGATCTCTCTCATTTGACTCTCTCAAGATCACCTCGAGAAAGTCAAGGCACT 1386
Db 1082 GCGCATTTGGGATCTCTTCTATTGATTCTCCAGAGCACATCCAGGCTATTAAAGCTGTT 1141
QY 1387 TCGAGGAGAAATTTGGCTCTGAAAGAGAACTGAGCCACCTGAGAGCCACCTGATCGGCCA 1446
Db 1142 CAAAGAAAGATTTCTCCCGCATGAAGATGAGTAAAGTTGGTGAATGATCTGGCCCA 1201
QY 1447 GCTTACCACCTTTGGGCACTTCTCAGCTCTCACCCTATTAACCTCAGCACTCTCGAAGA 1500
Db 1202 ACTTGCCATTTCTGATGTGCACTTGTCAATGAGGAATTTCCAGGCCCTCGAACA 1255

RESULT 8

US-09-091-501B-5
; Sequence 5, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Uterophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; PRIOR FILING DATE: 1998-06-18
; PRIOR FILING DATE: 1996-12-19
; PRIOR FILING DATE: 1996-12-19
; PRIOR FILING DATE: 1995-12-19
; PRIOR FILING DATE: 1996-07-26
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 200
; TYPE: DNA
; ORGANISM: Rattus sp.
US-09-091-501B-5

Query Match 4.7%; Score 69.8; DB 4; Length 200;
Best Local Similarity 67.6%; Pred. No. 2.3e-12;
Matches 98; Conservative 0; Mismatches 47; Indels 0; Gaps 0;
QY 5 GATCTAGAACAGAAAGTCAAGTCAAGGTCAATTCTCTCACTCACTCACTGGTGGTGGTGGT 64
Db 56 GACCTCGAAGCTGAGCAGGTGAAGGTGATTCCTTAACCTCATATATGGTGGTGGTGGT 115

QY 65 GAATCTAGTGGATCAGCAACTGCTGCTTTGGAAGAACAACTTAAGCTATTGGGAGAT 124
Db 116 GAAACAGTGGGAGAGCGCCACAGCTGTTTGAAGATCAGTTACAGAAACTGGGTGAG 175
QY 125 CGATGGGCAACATCTGTAGATGA 149
Db 176 CGCTGGACAGCTGTATGCCGCTGGA 200

RESULT 9
US-09-091-501B-4
; Sequence 4, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Uterophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 200
; TYPE: DNA
; ORGANISM: Mus sp.
US-09-091-501B-4

Query Match 4.6%; Score 69; DB 4; Length 200;
Best Local Similarity 66.4%; Pred. No. 4.1e-12;
Matches 99; Conservative 0; Mismatches 50; Indels 0; Gaps 0;
QY 1 AGAAGATCTAGAACAAAGACAGTCAGGTCATTTCTCACTCACATGGTGGTGTAGT 60
Db 52 AATGACCTTGAAGCTGAACAGGTGAAGTAAATTCCTTAACATCACATGGTGGTGTATGT 111
QY 61 TGATGAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAAGAACAACTTAAGGTATTGGG 120
Db 112 GGATGAAACACAGTGGGAGAGTGCACAGCTCTTCTGGAAGATCAGTTACAGAACTGGG 171
QY 121 AGATCGATGGGCAACATCTGTAGATGA 149
Db 172 TGAGCGCTGGACAGCTGTATGCCGCTGGA 200

RESULT 10
US-09-091-501B-6
; Sequence 6, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Uterophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24

; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 200
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-091-501B-6
Query Match 4.3%; Score 65; DB 4; Length 200;
Best Local Similarity 65.5%; Pred. No. 7.9e-11;
Matches 95; Conservative 0; Mismatches 50; Indels 0; Gaps 0;
QY 5 GATCTAGAACAAAGACAGTCAGGTCATTTCTCACTCACATGGTGGTGGTGTAGT 64
Db 56 GATCTGAGGCTGAACAGGTGAAAGTAAATTCACTAACATCACATGGTGGTGTAGT 115
QY 65 GAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAAGAACAACTTAAGGTATTGGGAGAT 124
Db 116 GAAACAGTGGTGAAGCGCTACAGCTATCCTAGAGACCAAGTTACAGAACTTGGTGA 175
QY 125 CGATGGGCAACATCTGTAGATGA 149
Db 176 CGCTGGACAGCAGTATGCCGCTGGA 200

RESULT 11
US-09-687-875A-13
; Sequence 13, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Paul
; APPLICANT: Liu, Paul
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPLICED PE
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687,875A
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158,868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 238
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: pXX-C2 5' junction
US-09-687-875A-13

Query Match 4.2%; Score 63.6; DB 4; Length 238;
Best Local Similarity 94.3%; Pred. No. 2.5e-10;
Matches 66; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 748 TTCCGATGATCCAGTCCTGTTACAAAGACGTTTGGATAACATGAACATCAAGTGGAGTGA 807
Db 169 TTCGACGACGAGTACTGTTACAAAGACGTTTGGATAACATGAACATCAAGTGGAGTGA 228
QY 808 ACTTCGGAAA 817
Db 229 ACTTCGGAAA 238

RESULT 12
US-08-232-463-14/c
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner

```
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,463
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/935,313
; FILING DATE:
; APPLICATION NUMBER: EP 91 114 300.6
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 30472/114 IMMU
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7218 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: pTZgpt-F1s
; US-08-232-463-14

Query Match          3.6%; Score 53.4; DB 1; Length 7218;
Best Local Similarity 3.8%; Pred. No. 5.1e-06;
Matches 15; Conservative 220; Mismatches 156; Indels 0; Gaps 0;

QY 914 AAGATGATGAATTAAGCGGCGGAGGACCTATTGGAGGCGACTTTCAGCAGTTCAGAG 973
Db 1436 ACRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1377

QY 974 CAGAACGATGTACATAGGCGCTTCAAGAGGGAATTAAGAACTAAGAACCTGTATCATG 1033
Db 1376 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1317

QY 1034 AGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAA 1093
Db 1316 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1257

QY 1094 CTCTACGAGGAGCCAGAGAGCTGCCTCTGAGGAGAGAGCCAGCAATGTCACTCGGCTT 1153
Db 1256 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1197

QY 1154 CTACGAAAGCAGGCTGAGGAGGTCAATAGTGGGAAAAATTGAACCTGCCTCCGCT 1213
Db 1196 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1137

QY 1214 GACTGGCAGAGAAAAATAGATGAGACCTTGAAGAACTCCAGAACTTCAAGAGGCCAG 1273
Db 1136 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1077

QY 1274 GATGAGCTGGACCTCAAGCTGCGCCAAAGCTG 1304
Db 1076 RRRRRRRRRATCGAAGCTCCCTCGACCTG 1046

-RESULT 13
US-09-497-855A-37/c
; Sequence 37, Application US/09497855A

; Patent No. 6605432
; GENERAL INFORMATION:
; APPLICANT: Huang, Tim
; TITLE OF INVENTION: HIGH-THROUGHPUT METHODS FOR DETECTING DNA METHYLATION
; FILE REFERENCE: UMO1523
; CURRENT APPLICATION NUMBER: US/09/497,855A
; CURRENT FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/120,592
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: 60/118,760
; PRIOR FILING DATE: 1999-02-05
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 37
; LENGTH: 193303
; TYPE: DNA
; ORGANISM: Homo sapiens;
US-09-497-855A-37

Query Match          2.6%; Score 39.4; DB 4; Length 193303;
Best Local Similarity 55.5%; Pred. No. 1.6;
Matches 76; Conservative 0; Mismatches 61; Indels 0; Gaps 0;

QY 243 AAGAAGATGCAGTGAACAAGATTTCACACAACCTGGCTTTAAAGATCAAAATGAAATGTTAT 302
Db 163865 AAGAATCGGCTTTGAGCAGCACCCGAACTCGTTTAAATGATGGCAATCAAGTGTGAG 163806

QY 303 CAAGTCTTCAAAAACCTGGCCGTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCATGG 362
Db 163805 AGCTAATTCAGAGACAGGCATGTTAACATGCTGATTTTAAAGCTTTAAAAAGGCAATC 163746

QY 363 GCAAACTGTATTCACTC 379
Db 163745 TCTAACTTTTAAAGTC 163729

RESULT 14
US-09-497-855A-44/c
; Sequence 44, Application US/09497855A
; Patent No. 6605432
; GENERAL INFORMATION:
; APPLICANT: Huang, Tim
; TITLE OF INVENTION: HIGH-THROUGHPUT METHODS FOR DETECTING DNA METHYLATION
; FILE REFERENCE: UMO1523
; CURRENT APPLICATION NUMBER: US/09/497,855A
; CURRENT FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/120,592
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: 60/118,760
; PRIOR FILING DATE: 1999-02-05
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 44
; LENGTH: 193303
; TYPE: DNA
; ORGANISM: Homo sapiens;
US-09-497-855A-44

Query Match          2.6%; Score 39.4; DB 4; Length 193303;
Best Local Similarity 55.5%; Pred. No. 1.6;
Matches 76; Conservative 0; Mismatches 61; Indels 0; Gaps 0;

QY 243 AAGAAGATGCAGTGAACAAGATTTCACACAACCTGGCTTTAAAGATCAAAATGAAATGTTAT 302
Db 163865 AAGAATCGGCTTTGAGCAGCACCCGAACTCGTTTAAATGATGGCAATCAAGTGTGAG 163806

QY 303 CAAGTCTTCAAAAACCTGGCCGTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCATGG 362
Db 163805 AGCTAATTCAGAGACAGGCATGTTAACATGCTGATTTTAAAGCTTTAAAAAGGCAATC 163746

QY 363 GCAAACTGTATTCACTC 379
Db 163745 TCTAACTTTTAAAGTC 163729
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Tue Sep 14 10:59:36 2004

RESULT 15
US-09-620-312D-847
; Sequence 847, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yungqing
; APPLICANT: Wang, Dunrui
; APPLICANT: Wang, Zhiwei
; APPLICANT: John Tillinghast
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: No. 6569662el Nucleic Acids and
; TITLE OF INVENTION: Polypeptides
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/09/620,312D
; CURRENT FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1105
; SOFTWARE: pt FL_genes Version 1.0
; SEQ ID NO 847
; LENGTH: 1751
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (210)..(1253)
US-09-620-312D-847

Query Match	2.6%	Score 38.6	DB 4	Length 1751
Best Local Similarity	51.4%	Pred. No. 0.11		
Matches	89	Conservative	0	Mismatches 84
				Indels 0
				Gaps 0

Qy	564	AAGCTGAAACAACACTGCCAATGTCTCTACAGGATGCTACCGTAAAGGAAAGGCTCCTAGAAG	623
Db	373	AAGATGAAATACATGATGACCAAGGAACAACAGTAATCTTCAAGAAAGGCAACTTCAGA	432
Qy	624	ACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAAATGAAG	683
Db	433	TACTGGAGAAGTTAAACGAATTACTGACAAATATGGAAGAACTCAAAGAGGGAATCAGAT	492
Qy	684	CTCACACAGATGTTTATCACAACCTGGATGAAACAGCCAAAAAATCCTGAGA	736
Db	493	TTCTTAAAGAAGCTATTCCAAAGCTGGAGGAATATATACAGATGAAGTTGGA	545

Search completed: September 14, 2004, 02:31:53
Job time : 115 secs

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OM nucleic ~ nucleic search, using sw model

Run on: September 14, 2004, 02:18:29 ; Search time 725.333 Seconds
(without alignments)
10412.200 Million cell updates/sec

Title: US-09-845-416-9_COPY_1000_2500
Perfect score: 1501
Sequence: 1 ggcagttcattgatggagag.....gggtgatcaagggtcctggc 1501

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 3304383 seqs, 2515761380 residues

Total number of hits satisfying chosen parameters: 6608766

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA: *
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2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq: *
3: /cgn2_6/ptodata/1/pubpna/US05_NEW_PUB.seq: *
4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq: *
5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq: *
6: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq: *
7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq: *
8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq: *
9: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq: *
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11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq: *
12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq: *
13: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq2: *
14: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq: *
15: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq: *
16: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq: *
17: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq: *
18: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq: *
19: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq: *

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1501	100.0	3858	10	US-09-845-416-9
2	1501	100.0	4825	10	US-09-845-416-29
3	1501	100.0	4848	10	US-09-845-416-35
4	1501	100.0	5060	10	US-09-845-416-36
5	1350	89.9	3999	10	US-09-845-416-6
6	1350	89.9	4966	10	US-09-845-416-28
7	1350	89.9	4990	10	US-09-845-416-34
8	1167	77.7	4182	10	US-09-845-416-2
9	1167	77.7	5149	10	US-09-845-416-27
10	939.4	62.6	5462	16	US-10-149-736-41
11	837	55.8	3531	10	US-09-845-416-10
12	837	55.8	4498	10	US-09-845-416-30
13	835.6	55.7	8689	16	US-10-149-736-42
14	835.6	55.7	11058	10	US-09-845-416-1

15	835.6	55.7	11443	16	US-10-149-736-44	Sequence 44, Appl
16	835.6	55.7	12057	16	US-10-149-736-47	Sequence 47, Appl
17	835.6	55.7	13957	9	US-09-782-378A-22	Sequence 22, Appl
18	835.6	55.7	13957	9	US-09-880-107-2284	Sequence 2284, Ap
19	835.6	55.7	13957	16	US-10-149-736-1	Sequence 1, Appli
20	835.6	55.7	14069	13	US-10-342-887-434	Sequence 434, App
21	835.6	55.7	14069	13	US-10-172-118-434	Sequence 434, App
22	835.6	55.7	14082	13	US-10-342-887-981	Sequence 981, App
23	835.6	55.7	14082	13	US-10-172-118-981	Sequence 981, App
24	835.6	55.7	14082	16	US-10-341-434-108	Sequence 108, App
25	825	55.0	5339	16	US-10-149-736-40	Sequence 40, Appl
26	823	54.8	2169	10	US-09-845-416-4	Sequence 4, Appli
27	795	53.0	3510	10	US-09-845-416-12	Sequence 12, Appl
28	795	53.0	4476	10	US-09-845-416-31	Sequence 31, Appl
29	720.4	48.0	13815	16	US-10-149-736-2	Sequence 2, Appli
30	693.8	46.2	4414	10	US-09-845-416-32	Sequence 32, Appl
31	693.8	46.2	5417	16	US-10-149-736-39	Sequence 39, Appl
32	692.2	46.1	1991	10	US-09-845-416-3	Sequence 3, Appli
33	681.8	45.4	3446	10	US-09-845-416-14	Sequence 14, Appl
34	677	45.1	1667	10	US-09-845-416-7	Sequence 7, Appli
35	476	31.7	1821	10	US-09-845-416-13	Sequence 13, Appl
36	387	25.8	387	16	US-10-149-736-32	Sequence 32, Appl
37	350	23.3	1340	10	US-09-845-416-11	Sequence 11, Appl
38	348	23.2	348	16	US-10-149-736-31	Sequence 31, Appl
39	331	22.1	333	16	US-10-149-736-9	Sequence 9, Appli
40	327	21.8	327	16	US-10-149-736-8	Sequence 8, Appli
41	292.4	19.5	10302	9	US-09-782-378A-23	Sequence 23, Appl
42	292.4	19.5	10302	16	US-10-149-736-3	Sequence 3, Appli
43	292.4	19.5	16531	15	US-10-101-510-667	Sequence 667, App
44	280.6	18.7	10705	12	US-10-152-319A-1598	Sequence 1598, Ap
45	265.6	17.7	11096	16	US-10-149-736-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1

US-09-845-416-9
; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9

Query Match		100.0%;	Score 1501;	DB 10;	Length 3858;
Best Local Similarity		100.0%;	Pred. No. 0;		
Matches 1501;		Conservative	0;	Mismatches	0; Indels 0; Gaps 0;
QY	1	GGCAGTTCATTGATGGAGAGTGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAA	60		
Db	1000	GGCAGTTCATTGATGGAGAGTGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAA	1059		
QY	61	GTATTATCGTGGCTTCTTTCTGCTGAGGACACATTGCAAGCAACAGGAGAGATTCTTAAT	120		
Db	1060	GTATTATCGTGGCTTCTTTCTGCTGAGGACACATTGCAAGCAACAGGAGAGATTCTTAAT	1119		
QY	121	GATGTGGAAGTGGTGAAGACCAGTTTCATCTACTCATGAGGGGTACATGATGGATTGACA	180		
Db	1120	GATGTGGAAGTGGTGAAGACCAGTTTCATCTACTCATGAGGGGTACATGATGGATTGACA	1179		

QY 181 GCCCATCAGGCGCGGTTGGTAATATTCTACAATTGGGAAGTAAGCTGATGGAAACAGGA 240
Db 1180 GCCCATCAGGCGCGGTTGGTAATATTCTACAATTGGGAAGTAAGCTGATGGAAACAGGA 1239
QY 241 AAATTATCAGAAGATGAAGAACTGAAGTACAAGACAGATGAATCTCCTAAATTCAAGA 300
Db 1240 AAATTATCAGAAGATGAAGAACTGAAGTACAAGACAGATGAATCTCCTAAATTCAAGA 1299
QY 301 TGGGAATGCCTCAGGGTAGCTAGCATGGAAAAAACHAAGCAATTTACATAGAGTTTAAATG 360
Db 1300 TGGGAATGCCTCAGGGTAGCTAGCATGGAAAAAACHAAGCAATTTACATAGAGTTTAAATG 1359
QY 361 GATCTCCAGAATCAGAAACTGAAGAGTTGAATGACTGGCTAAACAAAACAGAAAGAA 420
Db 1360 GATCTCCAGAATCAGAAACTGAAGAGTTGAATGACTGGCTAAACAAAACAGAAAGAA 1419
QY 421 ACAAGGAAATGGAGGAAGAGCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTA 480
Db 1420 ACAAGGAAATGGAGGAAGAGCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTA 1479
QY 481 CAACAAACATAAGGTCTTCAAGAAGATCTAGAACAAAGAAACAAGTCAGGTCATTTCTCTC 540
Db 1480 CAACAAACATAAGGTCTTCAAGAAGATCTAGAACAAAGAAACAAGTCAGGTCATTTCTCTC 1539
QY 541 ACTCACATGGTGGTAGTTGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAA 600
Db 1540 ACTCACATGGTGGTAGTTGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAA 1599
QY 601 GAACAACTTAAGGTATTGGGAGATCGATGGGCAAAACATCTGTAGATGGACAGAACCGC 660
Db 1600 GAACAACTTAAGGTATTGGGAGATCGATGGGCAAAACATCTGTAGATGGACAGAACCGC 1659
QY 661 TGGGTTCTTTTACAAGACACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAAAG 720
Db 1660 TGGGTTCTTTTACAAGACACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAAAG 1719
QY 721 TTTCTTGCTGCTTACAGAAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTACCCGT 780
Db 1720 TTTCTTGCTGCTTACAGAAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTACCCGT 1779
QY 781 AAGGAAAGGCTCCTAGAAAGCTCCAAGGGAGTAAAGAGCTGATGAACAAATGGCAAGAC 840
Db 1780 AAGGAAAGGCTCCTAGAAAGCTCCAAGGGAGTAAAGAGCTGATGAACAAATGGCAAGAC 1839
QY 841 CTCCAAGGTGAATTAAGACTCACACAGATGTTTATCAACAACCTGGATGAAACAGCCAA 900
Db 1840 CTCCAAGGTGAATTAAGACTCACACAGATGTTTATCAACAACCTGGATGAAACAGCCAA 1899
QY 901 AAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAAGCTCTGTTACAAAGACGTTTGGAT 960
Db 1900 AAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAAGCTCTGTTACAAAGACGTTTGGAT 1959
QY 961 AACATGAACCTTCAAGTGGAGTGAACTTCGGAAAAAGTCTCTCAACATTAGGTCCCATTG 1020
Db 1960 AACATGAACCTTCAAGTGGAGTGAACTTCGGAAAAAGTCTCTCAACATTAGGTCCCATTG 2019
QY 1021 GAAGCCAGTTCTGACAGTGGAGGCTCTGCACCTTCTCTGAGGAACTTCTGGTGTGG 1080
Db 2020 GAAGCCAGTTCTGACAGTGGAGGCTCTGCACCTTCTCTGAGGAACTTCTGGTGTGG 2079
QY 1081 CTACAGCTGAAAGATGATGAATTAAGCCGAGGACCTATTGGAGGCGACTTTCCAGCA 1140
Db 2080 CTACAGCTGAAAGATGATGAATTAAGCCGAGGACCTATTGGAGGCGACTTTCCAGCA 2139
QY 1141 GTTCAGAAAGCAGAACGATGTACATAGGCGCTTCAAGAGGGAAATTGAAAACTAAAGAACCT 1200
Db 2140 GTTCAGAAAGCAGAACGATGTACATAGGCGCTTCAAGAGGGAAATTGAAAACTAAAGAACCT 2199
QY 1201 GTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGACGAGCCTTTGGAAAG 1260
Db 2200 GTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGACGAGCCTTTGGAAAG 2259
QY 1261 CTAGAGAAACTCTACAGGAGGCCAGAGAGCTGCCTCCTGAGGAGAGAGCCCAAGATGTC 1320

Db 2260 CTAGAGAAACTCTACAGAGGCCAGAGAGCTGCCTCTGAGGAGAGAGCCCAAGATGTC 2319
QY 1321 ACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAAATTGAACCTG 1380
Db 2320 ACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAAATTGAACCTG 2379
QY 1381 CACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTGAAAGACTCCAGGAACCTTCAA 1440
Db 2380 CACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTGAAAGACTCCAGGAACCTTCAA 2439
QY 1441 GAGGCCACGGATGAGCTGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGG 1500
Db 2440 GAGGCCACGGATGAGCTGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGG 2499
QY 1501 C 1501
Db 2500 C 2500

RESULT 2
US-09-845-416-29
; Sequence 29, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-29

Query Match 100.0%; Score 1501; DB 10; Length 4825;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCAGTTTCATTGATGGAGAGTGAAGTAAACCTGGACCGTTATCAAAACAGCTTTTAGAAGAA 60
Db 1757 GGCAGTTTCATTGATGGAGAGTGAAGTAAACCTGGACCGTTATCAAAACAGCTTTTAGAAGAA 1816
QY 61 GTATTATCGTGGCTTCTTCTGCTGAGGACACATTCGAAGCACAAGGAGAGATTTCTAAT 120
Db 1817 GTATTATCGTGGCTTCTTCTGCTGAGGACACATTCGAAGCACAAGGAGAGATTTCTAAT 1876
QY 121 GATGTGGAAGTGTGAAAGACCAAGTTCATCTACTCATGAGGGGTACATGATGGATTGACA 180
Db 1877 GATGTGGAAGTGTGAAAGACCAAGTTCATCTACTCATGAGGGGTACATGATGGATTGACA 1936
QY 181 GCCCATCAGGCGCGGTTGGTAATATTCTACAATTTGGGAAGTAAGCTGATTGGAACAGGA 240
Db 1937 GCCCATCAGGCGCGGTTGGTAATATTCTACAATTTGGGAAGTAAGCTGATTGGAACAGGA 1996
QY 241 AAATTATCAGAAGATGAAGAACTGAAGTACAAGACAGATGATGATCTCCTAAATTCAAGA 300
Db 1997 AAATTATCAGAAGATGAAGAACTGAAGTACAAGACAGATGATGATCTCCTAAATTCAAGA 2056
QY 301 TGGGAATGCCTCAGGGTAGCTAGCATGGAAAAAACHAAGCAATTTACATAGAGTTTAAATG 360
Db 2057 TGGGAATGCCTCAGGGTAGCTAGCATGGAAAAAACHAAGCAATTTACATAGAGTTTAAATG 2116
QY 361 GATCTCCAGAATCAGAAACTGAAGAGTTGAATGACTGGCTAAACAAAACAGAAAGAA 420
Db 2117 GATCTCCAGAATCAGAAACTGAAGAGTTGAATGACTGGCTAAACAAAACAGAAAGAA 2176

QY 901 AAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAGTCCTGTTACAAGACGTTTGGAT 960
Db 2892 AAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAGTCCTGTTACAAGACGTTTGGAT 2951
QY 961 AACATGAACCTCAAGTGGAGTGAACTTCGGAAGAAAGTCTCTCAACATTAGGTCCCATTTG 1020
Db 2952 AACATGAACCTCAAGTGGAGTGAACTTCGGAAGAAAGTCTCTCAACATTAGGTCCCATTTG 3011
QY 1021 GAAGCCAGTCTGACCACTGGAAGCGTCTGCACCTTTCTCTGCAGGAACCTCTGGTGTGG 1080
Db 3012 GAAGCCAGTCTGACCACTGGAAGCGTCTGCACCTTTCTCTGCAGGAACCTCTGGTGTGG 3071
QY 1081 CTACAGCTGAAAGATGATGAATTAAGCCGGCGAGCACCTATTGGAGGCGACTTTCAGCA 1140
Db 3072 CTACAGCTGAAAGATGATGAATTAAGCCGGCGAGCACCTATTGGAGGCGACTTTCAGCA 3131
QY 1141 GTTCAGAACGAGAACGATGTACATAGGGCCCTTCAAGAGGGAATTGAAACTAAAGAACCT 1200
Db 3132 GTTCAGAACGAGAACGATGTACATAGGGCCCTTCAAGAGGGAATTGAAACTAAAGAACCT 3191
QY 1201 GTAATCATGAGTACTCTTGAGACTGTACGAATATTCTGACAGAGCGCTTTTGGAAAGGA 1260
Db 3192 GTAATCATGAGTACTCTTGAGACTGTACGAATATTCTGACAGAGCGCTTTTGGAAAGGA 3251
QY 1261 CTAGAGAAACTCTACAGGAGCCCCAGAGAGCTGCCTCCTGAGGAGAGAGCCCCAGAAATGTC 1320
Db 3252 CTAGAGAAACTCTACAGGAGCCCCAGAGAGCTGCCTCCTGAGGAGAGAGCCCCAGAAATGTC 3311
QY 1321 ACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAATAATTGAACCTG 1380
Db 3312 ACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAATAATTGAACCTG 3371
QY 1381 CACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTGAAAGACTCCAGGAACCTCAA 1440
Db 3372 CACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTGAAAGACTCCAGGAACCTCAA 3431
QY 1441 GAGGCCACGGATGAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGG 1500
Db 3432 GAGGCCACGGATGAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGG 3491
QY 1501 C 1501
Db 3492 C 3492

RESULT 5
US-09-845-416-6
; Sequence 6, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 3999
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-6

Query Match 89.9%; Score 1350; DB 10; Length 3999;
Best Local Similarity 91.4%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 141; Gaps 1;
QY 1 GGCAGTTTCAATGGAGAGTGAGTGAAGTAAACCTGGACCGTTATCAACAGCTTTAGAAGAA 60
Db 1000 GGCAGTTTCAATGGAGAGTGAGTGAAGTAAACCTGGACCGTTATCAACAGCTTTAGAAGAA 1059

QY 61 GTATTATCGTGGCTTCTTTCTGCTGAGGACACATTCGAAGCACAAAGGAGAGATTTCTAAT 120
Db 1060 GTATTATCGTGGCTTCTTTCTGCTGAGGACACATTCGAAGCACAAAGGAGAGATTTCTAAT 1119
QY 121 GATCTGGAAGTGGTGAAGACCAGTTTCTACTACTCATGAGGGGTACATGATGGATTGACA 180
Db 1120 GATCTGGAAGTGGTGAAGACCAGTTTCTACTACTCATGAGGGGTACATGATGGATTGACA 1179
QY 181 GCCATCAGGGCCGGTTGGTAATATTCTACAATTGGGAAGTAAGCTGATTGGAAACAGGA 240
Db 1180 GCCATCAGGGCCGGTTGGTAATATTCTACAATTGGGAAGTAAGCTGATTGGAAACAGGA 1239
QY 241 AAATTATCAGAAGATGAAGAAACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAAGA 300
Db 1240 AAATTATCAGAAGATGAAGAAACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAAGA 1299
QY 301 TGGGAATGCCCTCAGGGTAGCTAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAAATG 360
Db 1300 TGGGAATGCCCTCAGGGTAGCTAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAAATG 1359
QY 361 GATCTCCAGAATCAGAAACTGAAGAGATTGAATGACTGCTTAAACAAACAGAGAAAGA 420
Db 1360 GATCTCCAGAATCAGAAACTGAAGAGATTGAATGACTGCTTAAACAAACAGAGAAAGA 1419
QY 421 ACAAGGAAAAATGGAGGAAGAGCCTTTGGACCTGATCTTGAAGACCTTAAACCGCCAAATA 480
Db 1420 ACAAGGAAAAATGGAGGAAGAGCCTTTGGACCTGATCTTGAAGACCTTAAACCGCCAAATA 1479
QY 481 CAACAACATAAAGGTGCTTCAAGAAGATCTAGAACAAGAAACAAAGTCAAGGTCAATTCTCTC 540
Db 1480 CAACAACATAAAGGTGCTTCAAGAAGATCTAGAACAAGAAACAAAGTCAAGGTCAATTCTCTC 1539
QY 541 ACTCACATGGTGGTGTAGTTGATGAATCTAGTGGAGATCAGCGCAACTGCTGCTTTGGAA 600
Db 1540 ACTCACATGGTGGTGTAGTTGATGAATCTAGTGGAGATCAGCGCAACTGCTGCTTTGGAA 1599
QY 601 GAACAACTTAAGGTATTGGGAGATCGATGGGCAACATCTGTAGATGGACAGAACCCGC 660
Db 1600 GAACAACTTAAGGTATTGGGAGATCGATGGGCAACATCTGTAGATGGACAGAACCCGC 1659
QY 661 TGGGTCTTTTACAAGAC----- 678
Db 1660 TGGGTCTTTTACAAGACCCGCTGACCTAGCTCCTGGACTGACCACCTATTGGAGCCCTCT 1719
QY 679 ----- 678
Db 1720 CCTACTCAGACTGTTACTCTGGTGACACAACCTGTGGTTACTAAGGAAACTGCCATCTCC 1779
QY 679 -----ACTCATAGATTACTGCAACAG 699
Db 1780 AAAC TAGAAATGCCATCTTCTTGATGTTGGAGGTACCTACTCATAGATTACTGCAACAG 1839
QY 700 TTCCCTCCCTGGACCTGGAAAAAGTTTCTTGCCTGGCTTACAGAAGCTGAAACAACTGCCAAT 759
Db 1840 TTCCCTCCCTGGACCTGGAAAAAGTTTCTTGCCTGGCTTACAGAAGCTGAAACAACTGCCAAT 1899
QY 760 GTCCTACAGGATGCTACCCGTAAAGGAAAGGCTCCTAGAGACTCCAAAGGGAGTAAAGAG 819
Db 1900 GTCCTACAGGATGCTACCCGTAAAGGAAAGGCTCCTAGAGACTCCAAAGGGAGTAAAGAG 1959
QY 820 CTGATGAAACAAATGGCAAGACCTCCAAAGGTGAAATGAACTCACACAGATGTTTATCAC 879
Db 1960 CTGATGAAACAAATGGCAAGACCTCCAAAGGTGAAATGAACTCACACAGATGTTTATCAC 2019
QY 880 AACCTGGATGAAAAACAGCCAAATAATCCTGAGATCCCTGGAGGTTCCGATGATGCAGTC 939
Db 2020 AACCTGGATGAAAAACAGCCAAATAATCCTGAGATCCCTGGAGGTTCCGATGATGCAGTC 2079
QY 940 CTGTTACAAAGACGTTTGGATAACATGAACCTTCAAGTGGAGTGAACCTTCGGAAGAAAGTCT 999
Db 2080 CTGTTACAAAGACGTTTGGATAACATGAACCTTCAAGTGGAGTGAACCTTCGGAAGAAAGTCT 2139

QY 1000 CTCACATTAGTCCCATTTGGAAGCCAGTTCTGACCAGTGGAAAGCGTCTGCACCTTTCT 1059
Db 2140 CTCACATTAGTCCCATTTGGAAGCCAGTTCTGACCAGTGGAAAGCGTCTGCACCTTTCT 2199
QY 1060 CTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAAGATGATGAATTAAAGCCGCGCAGGCACCT 1119
Db 2200 CTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAAGATGATGAATTAAAGCCGCGCAGGCACCT 2259
QY 1120 ATTGGAGGCGACTTTCAGCAGCTTCAGAAAGCAGATGTACATAGGCGCTTCAAGAGG 1179
Db 2260 ATTGGAGGCGACTTTCAGCAGCTTCAGAAAGCAGATGTACATAGGCGCTTCAAGAGG 2319
QY 1180 GAATTGAAAACTAAAGAACTGTAAATCATGAGTACTCTTGAGACTGTACGAATATTTCTG 1239
Db 2320 GAATTGAAAACTAAAGAACTGTAAATCATGAGTACTCTTGAGACTGTACGAATATTTCTG 2379
QY 1240 ACAGAGCAGCCTTTTGAAGGACTAGAGAACTCTACAGGAGCCCAAGAGCTGCCTCCT 1299
Db 2380 ACAGAGCAGCCTTTTGAAGGACTAGAGAACTCTACAGGAGCCCAAGAGCTGCCTCCT 2439
QY 1300 GAGGAGAGAGCCCGAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACT 1359
Db 2440 GAGGAGAGAGCCCGAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACT 2499
QY 1360 GAGTGGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTT 1419
Db 2500 GAGTGGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTT 2559
QY 1420 GAAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTCGGCCAAGCT 1479
Db 2560 GAAAGACTCCAGGAACCTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTCGGCCAAGCT 2619
QY 1480 GAGGTGATCAAGGGATCCTGGC 1501
Db 2620 GAGGTGATCAAGGGATCCTGGC 2641

RESULT 6

US-09-845-416-28
; Sequence 28, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
; LENGTH: 4966
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-28

Query Match 89.9%; Score 1350; DB 10; Length 4966;
Best Local Similarity 91.4%; Pred. NO. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 141; Gaps 1;

QY 1 GGCAGTTTCATTGATGAGAGTGAAGTAAACCTGGACCGTTATCAAAACAGCTTTTAGAAGAA 60
Db 1757 GGCAGTTTCATTGATGAGAGTGAAGTAAACCTGGACCGTTATCAAAACAGCTTTTAGAAGAA 1816
QY 61 GTATTATCGTGGCTTCTTCTGTGAGGACACATTGCAAGCACAAGGAGAGATTTCTAAT 120
Db 1817 GTATTATCGTGGCTTCTTCTGTGAGGACACATTGCAAGCACAAGGAGAGATTTCTAAT 1876
QY 121 GATGTGGAAGTGGTGAAGACCAAGTTTCATCTACTCATGAGGGGTACATGATGGATTGACA 180
Db 1877 GATGTGGAAGTGGTGAAGACCAAGTTTCATCTACTCATGAGGGGTACATGATGGATTGACA 1936

QY 181 GCCCATCAGGCGCGGTTGGTAATATTTCTACAATTTGGAAAGTAAGCTGATTTGAAACAGGA 240
Db 1937 GCCCATCAGGCGCGGTTGGTAATATTTCTACAATTTGGAAAGTAAGCTGATTTGAAACAGGA 1996
QY 241 AAATTATCAGAAGATGAAGAAACTGAAAGTACAAGAGCAGATGAATCTCTAAATTTCAAGA 300
Db 1997 AAATTATCAGAAGATGAAGAAACTGAAAGTACAAGAGCAGATGAATCTCTAAATTTCAAGA 2056
QY 301 TGGGAATGCCTCAGGCTAGCTAGCATGGAATAAACAAGCAATTTACATAGAGTTTAAATG 360
Db 2057 TGGGAATGCCTCAGGCTAGCTAGCATGGAATAAACAAGCAATTTACATAGAGTTTAAATG 2116
QY 361 GATCTCCAGAAATCAGAAACTGAAAGAGTTTGAATGACTGGCTAACAAAAACAGAAAGAA 420
Db 2117 GATCTCCAGAAATCAGAAACTGAAAGAGTTTGAATGACTGGCTAACAAAAACAGAAAGAA 2176
QY 421 ACAAGGAAAAATGGAGGAAGAGCCTCTTTGGACCTGATCTTTGAAGACCTTAAAAACGCCAAGTA 480
Db 2177 ACAAGGAAAAATGGAGGAAGAGCCTCTTTGGACCTGATCTTTGAAGACCTTAAAAACGCCAAGTA 2236
QY 481 CAACAACATAAGGTGCTTCAAGAAGATCTAGAACAAAGAACAAAGTCAGGTCATTTCTCTC 540
Db 2237 CAACAACATAAGGTGCTTCAAGAAGATCTAGAACAAAGAACAAAGTCAGGTCATTTCTCTC 2296
QY 541 ACTCACATGGTGGTGGTAGTTGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAA 600
Db 2297 ACTCACATGGTGGTGGTAGTTGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAA 2356
QY 601 GAAACAACCTTAAGGTATTGGGAGATCGATGGGCAACATCTGTAGATGGACAGAACCCGC 660
Db 2357 GAAACAACCTTAAGGTATTGGGAGATCGATGGGCAACATCTGTAGATGGACAGAACCCGC 2416
QY 661 TGGGTTCTTTTACAAGAC----- 678
Db 2417 TGGGTTCTTTTACAAGACCAAGCCTGACCTAGCTCCTGGACTGACCACTATTGGAGCCTCT 2476
QY 679 ----- 678
Db 2477 CCTACTCAGACTGTACTCTGGTGACACAACCTGTGGTTACTTAAGGAAACTGCCATCTCC 2536
QY 679 -----ACTATAGATTACTGCAACAG 699
Db 2537 AAACCTAGAAATGCCATCTTCTTGATGTTGGAGTACCTACTCATAGATTACTGCAACAG 2596
QY 700 TTCCCCCTGGACCTGGAAAAAGTTTCTTGCTGGCTTACAGAAAGCTGAAACAACTGCCAAT 759
Db 2597 TTCCCCCTGGACCTGGAAAAAGTTTCTTGCTGGCTTACAGAAAGCTGAAACAACTGCCAAT 2656
QY 760 GTCCTACAGGATGCTACCCGTAAGGAAAGCTCCTTAGAAGACTCCAAGGGAGTAAAAAGAG 819
Db 2657 GTCCTACAGGATGCTACCCGTAAGGAAAGCTCCTTAGAAGACTCCAAGGGAGTAAAAAGAG 2716
QY 820 CTGATGAAACAATGGCAAGACCTCCAAGGTGAAATTTGAAGCTCACACAGATGTTTATCAC 879
Db 2717 CTGATGAAACAATGGCAAGACCTCCAAGGTGAAATTTGAAGCTCACACAGATGTTTATCAC 2776
QY 880 AACCTGGATGAAAAACAGCCAAAAATCCTGAGATCCCTGGAAGTTCCGATGATGCAGTC 939
Db 2777 AACCTGGATGAAAAACAGCCAAAAATCCTGAGATCCCTGGAAGTTCCGATGATGCAGTC 2836
QY 940 CTGTTACAAAGACGTTTGGATAACATGAACCTTCAAGTGGAGTGAACCTCGGAAAAAGTCT 999
Db 2837 CTGTTACAAAGACGTTTGGATAACATGAACCTTCAAGTGGAGTGAACCTCGGAAAAAGTCT 2896
QY 1000 CTCAACATTAGTCCCATTTTGGAGCCAGTTCTGACCAGTGGAGCGTCTGCACCTTTCT 1059
Db 2897 CTCAACATTAGTCCCATTTTGGAGCCAGTTCTGACCAGTGGAGCGTCTGCACCTTTCT 2956
QY 1060 CTGCAGGAACCTTCTGGTGTGGCTACAGTGAAGATGATGAATTAAGCCGCGCAGGCACCT 1119
Db 2957 CTGCAGGAACCTTCTGGTGTGGCTACAGTGAAGATGATGAATTAAGCCGCGCAGGCACCT 3016

QY 1120 ATGGAGGGGACTTTCCAGCAGTTTCAGAACGACGATGTACATAGGGCCTTCAAGAGG 1179
Db 3017 ATGGAGGGGACTTTCCAGCAGTTTCAGAACGACGATGTACATAGGGCCTTCAAGAGG 3076
QY 1180 GAATTGAAACCTAAGAACCTGTATCATGAGTACTCTTGAGACTGTACGAATATTTCTG 1239
Db 3077 GAATTGAAACCTAAGAACCTGTATCATGAGTACTCTTGAGACTGTACGAATATTTCTG 3136
QY 1240 ACAGAGCAGCCTTTGGAAGGACTAGAGAACTCTACCAGGAGCCACAGAGCTGCCTCCT 1299
Db 3137 ACAGAGCAGCCTTTGGAAGGACTAGAGAACTCTACCAGGAGCCACAGAGCTGCCTCCT 3196
QY 1300 GAGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACT 1359
Db 3197 GAGGAGAGAGCCCAAGATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACT 3256
QY 1360 GAGTGGGAAAAATTGAACCTGCACCTCGCTCACTGGCAGAGAAAAATAGATGAGACCCCT 1419
Db 3257 GAGTGGGAAAAATTGAACCTGCACCTCGCTCACTGGCAGAGAAAAATAGATGAGACCCCT 3316
QY 1420 GAAAGACTCCAGGAACCTCAAGAGGGCCACGGATGAGCTGGACCTCAAGCTCGGCCAAGCT 1479
Db 3317 GAAAGACTCCAGGAACCTCAAGAGGGCCACGGATGAGCTGGACCTCAAGCTCGGCCAAGCT 3376
QY 1480 GAGGTGATCAAGGGATCCTGGC 1501
Db 3377 GAGGTGATCAAGGGATCCTGGC 3398

RESULT 7
US-09-845-416-34
; Sequence 34, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 4990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-34

Query Match 89.9%; Score 1350; DB 10; Length 4990;
Best Local Similarity 91.4%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 141; Gaps 1;
QY 1 GGCAGTTTCATTGATGGAGAGTGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAA 60
Db 1781 GGCAGTTTCATTGATGGAGAGTGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAGAA 1840
QY 61 GTATTATCGTGGCTTCTTTCTGCTGAGGACACATTGCAAGCACAAAGGAGACATTTCTAAT 120
Db 1841 GTATTATCGTGGCTTCTTTCTGCTGAGGACACATTGCAAGCACAAAGGAGACATTTCTAAT 1900
QY 121 GATGTGGAAGTGGTGAAGACCAAGTTTTCATCTCATGAGGGGTACATGATGGATTTGACA 180
Db 1901 GATGTGGAAGTGGTGAAGACCAAGTTTTCATCTCATGAGGGGTACATGATGGATTTGACA 1960
QY 181 GCCCATCAGGGCCGGTTGGTAATATTCTACAATTGGGAAGTAAGCTGATTGGAACAGGA 240
Db 1961 GCCCATCAGGGCCGGTTGGTAATATTCTACAATTGGGAAGTAAGCTGATTGGAACAGGA 2020
QY 241 AAATTATCAGAAGATGAAGAACTGAAGTACAAGACGATGAATCTCCTAAATTCAGA 300
Db 2021 AAATTATCAGAAGATGAAGAACTGAAGTACAAGACGATGAATCTCCTAAATTCAGA 2080

QY 301 TGGGAATGCCTCAGGTAGCTAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAAATG 360
Db 2081 TGGGAATGCCTCAGGTAGCTAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAAATG 2140
QY 361 GATCTCCAGAAATCAGAAACTGAAAGAGTTGAATGACTGGCTAAACAAAAACAGAAAGA 420
Db 2141 GATCTCCAGAAATCAGAAACTGAAAGAGTTGAATGACTGGCTAAACAAAAACAGAAAGA 2200
QY 421 ACAAGGAAAAATGGAGGAAGAGCCTCTTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTA 480
Db 2201 ACAAGGAAAAATGGAGGAAGAGCCTCTTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTA 2260
QY 481 CAACAAACATAAGGTGCTTCAAGGAAGATCTAGAACAAAGCAAGTCAGGGTCAATCTCTC 540
Db 2261 CAACAAACATAAGGTGCTTCAAGGAAGATCTAGAACAAAGCAAGTCAGGGTCAATCTCTC 2320
QY 541 ACTCACATGGTGGTACTTGAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAA 600
Db 2321 ACTCACATGGTGGTACTTGAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAA 2380
QY 601 GAACAACTTAAGGTATTGGGAGATCGATGGGCAACATCTGTAGATGGACAGAACCCGC 660
Db 2381 GAACAACTTAAGGTATTGGGAGATCGATGGGCAACATCTGTAGATGGACAGAACCCGC 2440
QY 661 TGGGTTCTTTTACAAGAC----- 678
Db 2441 TGGGTTCTTTTACAAGACCCAGCCTGACCTAGCTCCTGGACTGACCACCTATTGGAGCCTCT 2500
QY 679 ----- 678
Db 2501 CCTACTCAGACTGTTACTCTGGTGACACAACTGTGGTTACTAAGGAACTGCCATCTCC 2560
QY 679 -----ACTCATAGATTACTGCAACAG 699
Db 2561 AAACATAGAAATGCCATCTTCTTGATGTTGGAGGTACCTACTCATAGATTACTGCAACAG 2620
QY 700 TTCCCCCTGGACCTGGAAAAGTTTCTTGCTGCTTACAGAAAGCTGAAAACACTGCCAAT 759
Db 2621 TTCCCCCTGGACCTGGAAAAGTTTCTTGCTGCTTACAGAAAGCTGAAAACACTGCCAAT 2680
QY 760 GTCCTACAGGATGCTACCCGTAAGGAAAGGCTCCTAGAAGACTCCAAGGAGTAAAGAG 819
Db 2681 GTCCTACAGGATGCTACCCGTAAGGAAAGGCTCCTAGAAGACTCCAAGGAGTAAAGAG 2740
QY 820 CTGATGAAAACAATGGCAAGACCTCCAAGGTGAAATTTGAAGCTCACACAGATGTTATCAC 879
Db 2741 CTGATGAAAACAATGGCAAGACCTCCAAGGTGAAATTTGAAGCTCACACAGATGTTATCAC 2800
QY 880 AACCTGGATGAAAAACAGCCAAAAAATCCTGAGATCCCTGGAAAGGTTCCGATGATGCAGTC 939
Db 2801 AACCTGGATGAAAAACAGCCAAAAAATCCTGAGATCCCTGGAAAGGTTCCGATGATGCAGTC 2860
QY 940 CTGTTACAAAGACGTTTGGATAACATGAACCTTCAAGTGGAGTGAACCTTCGGAAAAAGTCT 999
Db 2861 CTGTTACAAAGACGTTTGGATAACATGAACCTTCAAGTGGAGTGAACCTTCGGAAAAAGTCT 2920
QY 1000 CTCAACATTAGGTCCCATTTGGAAGCCAGTTCTGACCAAGTGAAGCGTCTGCACCTTTCT 1059
Db 2921 CTCAACATTAGGTCCCATTTGGAAGCCAGTTCTGACCAAGTGAAGCGTCTGCACCTTTCT 2980
QY 1060 CTGCAGGAACCTTCTGGTGTGGTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCT 1119
Db 2981 CTGCAGGAACCTTCTGGTGTGGTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCT 3040
QY 1120 ATTGAGGCGACTTTCCAGCAGTTTCAAGAGCAGAACGATGTACATAGGGCCTTCAAGAGG 1179
Db 3041 ATTGAGGCGACTTTCCAGCAGTTTCAAGAGCAGAACGATGTACATAGGGCCTTCAAGAGG 3100
QY 1180 GAATTGAAAACTAAAGAACCTGTAATCATGACTCTTTGAGACTGTACGAATATTTCTG 1239
Db 3101 GAATTGAAAACTAAAGAACCTGTAATCATGACTCTTTGAGACTGTACGAATATTTCTG 3160

QY 1240 ACAGAGCAGCCCTTTGGAAGGACTAGAGAACTCTACAGGAGCCCGAGAGAGCTGCCTCCT 1299
Db 3161 ACAGAGCAGCCCTTTGGAAGGACTAGAGAACTCTACAGGAGCCCGAGAGAGCTGCCTCCT 3220
QY 1300 GAGGAGAGCCCGAGAGTGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACT 1359
Db 3221 GAGGAGAGCCCGAGAGTGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACT 3280
QY 1360 GAGTGGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTT 1419
Db 3281 GAGTGGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTT 3340
QY 1420 GAAAGACTCCAGGAACCTCAAGAGGCCACCGATGAGCTGGACCTCAAGCTGCGCCCAAGCT 1479
Db 3341 GAAAGACTCCAGGAACCTCAAGAGGCCACCGATGAGCTGGACCTCAAGCTGCGCCCAAGCT 3400
QY 1480 GAGGTGATCAAGGGATCCTGGC 1501
Db 3401 GAGGTGATCAAGGGATCCTGGC 3422

RESULT 8

US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2

Query Match 77.7%; Score 1167; DB 10; Length 4182;
Best Local Similarity. 82.2%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 324; Gaps 1;

QY 1 GGCAGTTTCATTGATGAGAGTGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAAGAA 60
Db 1000 GGCAGTTTCATTGATGAGAGTGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAAGAA 1059
QY 61 GTATTATCGTGGCTTTCTGCTGAGGACACATTTGCAAGCACACAGGAGAGATTTCTTAAT 120
Db 1060 GTATTATCGTGGCTTTCTGCTGAGGACACATTTGCAAGCACACAGGAGAGATTTCTTAAT 1119
QY 121 GATGTGGAAGTGGTGAAGACCAAGTTTCACTACTCATGAGGGGTACATGATGGATTGACA 180
Db 1120 GATGTGGAAGTGGTGAAGACCAAGTTTCACTACTCATGAGGGGTACATGATGGATTGACA 1179
QY 181 GCCCATCAGGGCCGGTGGTAAATATTCTACAATTTGGGAAGTAAAGCTGATTGGAACAGGA 240
Db 1180 GCCCATCAGGGCCGGTGGTAAATATTCTACAATTTGGGAAGTAAAGCTGATTGGAACAGGA 1239
QY 241 AAATTATCAGAGATGAAGAAACTGAAGTACAGAGCAGATGAATCTCCTAAATTCAGA 300
Db 1240 AAATTATCAGAGATGAAGAAACTGAAGTACAGAGCAGATGAATCTCCTAAATTCAGA 1299
QY 301 TGGGAATGCCTCAGGGTAGCTAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAAATG 360
Db 1300 TGGGAATGCCTCAGGGTAGCTAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAAATG 1359
QY 361 GATCTCCAGAACTCAGAAACTGAAAGAGTTGAATGACTGGCTACAAAAACAGAAAGA 420
Db 1360 GATCTCCAGAACTCAGAAACTGAAAGAGTTGAATGACTGGCTACAAAAACAGAAAGA 1419

QY 421 ACAAGGAAAAATGGAGAAAGAGCCTCTTGGACCTGATCTTGAAGAGCCTTAAACGCCAAGTA 480
Db 1420 ACAAGGAAAAATGGAGAAAGAGCCTCTTGGACCTGATCTTGAAGAGCCTTAAACGCCAAGTA 1479
QY 481 CAACAAACATAAGGTGCTTCAAGAAGATCTAGAAACAAGAACAAAGTCAAGGTCAATTCTCTC 540
Db 1480 CAACAAACATAAGGTGCTTCAAGAAGATCTAGAAACAAGAACAAAGTCAAGGTCAATTCTCTC 1539
QY 541 ACTCACATGGTGGTGGTAGTTGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAA 600
Db 1540 ACTCACATGGTGGTGGTAGTTGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAA 1599
QY 601 GAACAACTTAAGGTATTTGGAGATCGATGGGCAAAACATCTGTAGATGACAGAACCCGC 660
Db 1600 GAACAACTTAAGGTATTTGGAGATCGATGGGCAAAACATCTGTAGATGACAGAACCCGC 1659
QY 661 TGGGTTCTTTTACAAGAC----- 678
Db 1660 TGGGTTCTTTTACAAGACATCCTTCTCAAAATGGCAACGCTCTTACTGAAGAACAGTGCCTT 1719
QY 679 ----- 678
Db 1720 TTTAGTGCATGGCTTTTCAGAAAAAGAGATGAGTGAACAAGATTACACAACTGGCTTT 1779
QY 679 ----- 678
Db 1780 AAAGATCAAAATGAAATGTTATCAAGTCTCTCAAAACTGGCCGTTTAAAGCGGATCTA 1839
QY 679 ----- 678
Db 1840 GAAAGAAAAAGCAATCCATGGGCAAACTGTATTCACTCAAAACAGATCTTCTTTCAACA 1899
QY 679 ----- 678
Db 1900 CTGAAGAAATAAGTCAAGTGACCCAGAACGGAAGCATGGCTGGATAACTTTGCCCGGTGT 1959
QY 679 -----ACTCATAGATTACTGCAA 696
Db 1960 TGGGATAAATTTAGTCCAAAAAATTTGAAAAAGAGTACAGCACAGACTCATAGATTACTGCAA 2019
QY 697 CAGTTCCCTCCCTGGACCTGGAAAAAGTTTCTTGCCTGGCTTACAGAAAGCTGAAACAACTGCC 756
Db 2020 CAGTTCCCTCCCTGGACCTGGAAAAAGTTTCTTGCCTGGCTTACAGAAAGCTGAAACAACTGCC 2079
QY 757 AATGTCTCTACAGATGCTACCCGTAAAGAAAGGCTCCTAGAAAGACTCCAAGGGAGTAAAA 816
Db 2080 AATGTCTCTACAGATGCTACCCGTAAAGAAAGGCTCCTAGAAAGACTCCAAGGGAGTAAAA 2139
QY 817 GAGCTGATGAACAATGGCAAGACCTCCAAGGTGAAATTTGAAGCTCACACAGATGTTTAT 876
Db 2140 GAGCTGATGAACAATGGCAAGACCTCCAAGGTGAAATTTGAAGCTCACACAGATGTTTAT 2199
QY 877 CACAACTGGATGAACAAACAGCCAAATCTCTGAGATCCCTGGAAAGTTCCGATGATGCA 936
Db 2200 CACAACTGGATGAACAAACAGCCAAATCTCTGAGATCCCTGGAAAGTTCCGATGATGCA 2259
QY 937 GTCTCTGTTACAAAGACGTTTGGATAACATGAACCTTCAAGTGGAGTGAACCTTCGGAAAAAG 996
Db 2260 GTCTCTGTTACAAAGACGTTTGGATAACATGAACCTTCAAGTGGAGTGAACCTTCGGAAAAAG 2319
QY 997 TCTCTCAACATTAGGTCCCATTTGGAAAGCCAGTTCTGACCAAGTGAAGCGTCTGCACCTT 1056
Db 2320 TCTCTCAACATTAGGTCCCATTTGGAAAGCCAGTTCTGACCAAGTGAAGCGTCTGCACCTT 2379
QY 1057 TCTCTGAGGAACTTCTGGTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCA 1116
Db 2380 TCTCTGAGGAACTTCTGGTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCA 2439
QY 1117 CCTATTGGAGGCACTTCTCCAGCAGTTTCCAGAAAGCAGAACGATGATAGGGCCTTCAAG 1176
Db 2440 CCTATTGGAGGCACTTCTCCAGCAGTTTCCAGAAAGCAGAACGATGATAGGGCCTTCAAG 2499


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QY 1177 AGGGAATTGAAACTAAAGAACTGTAAATCATGAGTACTCTTGAGACTGTACGAATATTT 1236
    |||
Db 2500 AGGGAATTGAAACTAAAGAACTGTAAATCATGAGTACTCTTGAGACTGTACGAATATTT 2559
    |||
QY 1237 CTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACTCTACCAGGAGCCAGAGAGCTGCCT 1296
    |||
Db 2560 CTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACTCTACCAGGAGCCAGAGAGCTGCCT 2619
    |||
QY 1297 CCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAAT 1356
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Db 2620 CCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAAT 2679
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QY 1357 ACTGAGTGGGAAAAATTGAACCTGCCTCGCTGACTGGCAGAGAAAAATAGATGAGACC 1416
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Db 2680 ACTGAGTGGGAAAAATTGAACCTGCCTCGCTGACTGGCAGAGAAAAATAGATGAGACC 2739
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QY 1417 CTTGAAAGACTCCAGGAACTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCAA 1476
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Db 2740 CTTGAAAGACTCCAGGAACTTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCAA 2799
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QY 1477 GCTGAGGTGATCAAGGGATCCTGGC 1501
    |||
Db 2800 GCTGAGGTGATCAAGGGATCCTGGC 2824
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RESULT 9
US-09-845-416-27
; Sequence 27, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 5149
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-27

Query Match      77.7%; Score 1167; DB 10; Length 5149;
Best Local Similarity 82.2%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 324; Gaps 1;

QY      1 GGCAGTTCATTGATGGAGAGTGAAGTAAACCTGGACCGTTATCAAACAGCTTTAGAAGAA 60
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Db     1757 GGCAGTTCATTGATGGAGAGTGAAGTAAACCTGGACCGTTATCAAACAGCTTTAGAAGAA 1816
    |||
QY      61 GTATTATCGTGGCTTCTTTCTGCTGAGGACACATTGCAAGCACAAAGGAGAGATTTCTAAT 120
    |||
Db     1817 GTATTATCGTGGCTTCTTTCTGCTGAGGACACATTGCAAGCACAAAGGAGAGATTTCTAAT 1876
    |||
QY     121 GATGTGGAAGTGGTGAAGACCAAGTTTCATCTCATGAGGGGTACATGATGGATTTGACA 180
    |||
Db     1877 GATGTGGAAGTGGTGAAGACCAAGTTTCATCTCATGAGGGGTACATGATGGATTTGACA 1936
    |||
QY     181 GCCCATCAGGGCCGGTTGGTGAATATTTCTACAATTTGGGAAGTAAGCTGATTGGAACAGGA 240
    |||
Db     1937 GCCCATCAGGGCCGGTTGGTGAATATTTCTACAATTTGGGAAGTAAGCTGATTGGAACAGGA 1996
    |||
QY     241 AAATTATCAGAAGATGAAGAACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAAGA 300
    |||
Db     1997 AAATTATCAGAAGATGAAGAACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAAGA 2056
    |||
QY     301 TGGNAATGCCTCAGGGTAGCTAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATG 360
    |||
Db     2057 TGGNAATGCCTCAGGGTAGCTAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATG 2116
    |||
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QY 361 GATCTCCAGAATCAGAAACTGAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGA 420
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Db 2117 GATCTCCAGAATCAGAAACTGAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGA 2176
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QY 421 ACAAGGAAAAATGGAGGAAGAGCCTCTTTGGACCTTGATCTTTGAAGACCTTAAACGCCAAGTA 480
    |||
Db 2177 ACAAGGAAAAATGGAGGAAGAGCCTCTTTGGACCTTGATCTTTGAAGACCTTAAACGCCAAGTA 2236
    |||
QY 481 CAACAACATAAAGTGCTTTCAAGAAAGATCTAGAACAAAGCAAGTCAGGGTCAATTTCTCTC 540
    |||
Db 2237 CAACAACATAAAGTGCTTTCAAGAAAGATCTAGAACAAAGCAAGTCAGGGTCAATTTCTCTC 2296
    |||
QY 541 ACTCACATGGTGGTGGTAGTTGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAA 600
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Db 2297 ACTCACATGGTGGTGGTAGTTGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAA 2356
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QY 601 GAAACAACCTTAAGGTATTGGGAGATCGATGGGCAAAACATCTGTAGATGGACAGAACCCGC 660
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Db 2357 GAAACAACCTTAAGGTATTGGGAGATCGATGGGCAAAACATCTGTAGATGGACAGAACCCGC 2416
    |||
QY 661 TGGGTTCTTTTACAAGAC----- 678
    |||
Db 2417 TGGGTTCTTTTACAAGACATCCTTCTCAAATGGCAACGCTCTTACTGAAGAACAGTGCCTT 2476
    |||
QY 679 ----- 678
    |||
Db 2477 TTTAGTGCATGGCTTTTCAAGAAAAAAGAGATGCAGTGAACAAAGATTCAACAACTGGCTTT 2536
    |||
QY 679 ----- 678
    |||
Db 2537 AAAGATCAAAATGAAATGTATTATCAAGTCTTCAAAAACTGGCCGTTTTTAAAGCGGATCTA 2596
    |||
QY 679 ----- 678
    |||
Db 2597 GAAAAAGAAAAAGCAATCCATGGGCAAACTGTATTCACTCAAAACAAGATCTTCTTTCAACA 2656
    |||
QY 679 ----- 678
    |||
Db 2657 CTGAAGAATAAGTCAGTGACCCAGAGACGGAAGCATGGCTGGATAACTTTTGGCCGGTGT 2716
    |||
QY 679 -----ACTCATAGATTACTGCAA 696
    |||
Db 2717 TGGGATAATTTAGTCCAAAAAATTTGAAAGAGTACAGCACAGACTCATAGATTACTGCAA 2776
    |||
QY 697 CAGTTCCCTCCCTGGACCTGGAAAAAGTTTCTTGCTGCTTACAGAAAGCTGAAACAACTGCC 756
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Db 2777 CAGTTCCCTCCCTGGACCTGGAAAAAGTTTCTTGCTGCTTACAGAAAGCTGAAACAACTGCC 2836
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QY 757 AATGTCCTACAGGATGTACCCGTAAAGAAAGGCTCCTAGAAGACTCCAAGGGAGTAAAA 816
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Db 2837 AATGTCCTACAGGATGTACCCGTAAAGAAAGGCTCCTAGAAGACTCCAAGGGAGTAAAA 2896
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QY 817 GAGCTGATGAACAATGGCAAGACCTCCAAGGTGAATTTGAAGCTCACACAGATGTTTAT 876
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Db 2897 GAGCTGATGAACAATGGCAAGACCTCCAAGGTGAATTTGAAGCTCACACAGATGTTTAT 2956
    |||
QY 877 CACAACCTGGATGAAAAACAGCCAAAAAATCCTGAGATCCTGGAAGGTTCCGATGATGCA 936
    |||
Db 2957 CACAACCTGGATGAAAAACAGCCAAAAAATCCTGAGATCCTGGAAGGTTCCGATGATGCA 3016
    |||
QY 937 GTCCTGTTACAAAGACGTTTGGATAAACATGAACCTTCAAGTGGAGTGAACCTTCGGAAAAAG 996
    |||
Db 3017 GTCCTGTTACAAAGACGTTTGGATAAACATGAACCTTCAAGTGGAGTGAACCTTCGGAAAAAG 3076
    |||
QY 997 TCTCTCAACATTAGGTCCCATTTGGAAAGCCAGTTTCTGACAGTGAAGCGTCTGCACCTT 1056
    |||
Db 3077 TCTCTCAACATTAGGTCCCATTTGGAAAGCCAGTTTCTGACAGTGAAGCGTCTGCACCTT 3136
    |||
QY 1057 TCTCTGCAGGAACCTTCTGGTGTGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCA 1116
    |||
Db 3137 TCTCTGCAGGAACCTTCTGGTGTGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCA 3196
    |||
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QY 1117 CCTATTGGAGGCGACTTCCAGCAGTTCCAGAGCAGTGTACATAGGCGCTTCAAG 1176
Db |||||
QY 3197 CCTATTGGAGGCGACTTCCAGCAGTTCCAGAGCAGTGTACATAGGCGCTTCAAG 3256
Db |||||
QY 1177 AGGGAATTGAAAACCTAAAGAACCTGTAATCATCATGAGTACTCTTGAGACTGTACGAATATTT 1236
Db |||||
QY 3257 AGGGAATTGAAAACCTAAAGAACCTGTAATCATCATGAGTACTCTTGAGACTGTACGAATATTT 3316
Db |||||
QY 1237 CTGACAGAGCAGCGCTTTGGAAGGACTAGAGAACTCTACCAGGAGCCAGAGAGCTGCCT 1296
Db |||||
QY 3317 CTGACAGAGCAGCGCTTTGGAAGGACTAGAGAACTCTACCAGGAGCCAGAGAGCTGCCT 3376
Db |||||
QY 1297 CCTGAGGAGAGAGCGCCAGAAATGTCACTCGGCTTCTACGAAGCAGGCTGAGGAGGTCAAT 1356
Db |||||
QY 3377 CCTGAGGAGAGAGCGCCAGAAATGTCACTCGGCTTCTACGAAGCAGGCTGAGGAGGTCAAT 3436
Db |||||
QY 1357 ACTGAGTGGGAAAATGAACTGCACTCCGCTGACTGGCAGAGAAAATAGATGAGACC 1416
Db |||||
QY 3437 ACTGAGTGGGAAAATGAACTGCACTCCGCTGACTGGCAGAGAAAATAGATGAGACC 3496
Db |||||
QY 1417 CTTGAAAGACTCCAGGAATTTCAAGAGGCCAGGATGAGCTGACCTCAAGCTGCGCCAA 1476
Db |||||
QY 3497 CTTGAAAGACTCCAGGAATTTCAAGAGGCCAGGATGAGCTGACCTCAAGCTGCGCCAA 3556
Db |||||
QY 1477 GCTGAGGTGATCAAGGATCCTGGC 1501
Db |||||
QY 3557 GCTGAGGTGATCAAGGATCCTGGC 3581
Db |||||

RESULT 10
US-10-149-736-41
; Sequence 41, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott Q.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/311126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 41
; LENGTH: 5462
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-41

Query Match 62.6%; Score 939.4; DB 16; Length 5462;
Best Local Similarity 80.9%; Pred. No. 1.8e-264;
Matches 1215; Conservative 0; Mismatches 76; Indels 210; Gaps 2;
QY 1 GGCAGTTCAATGATGGAGAGTGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAGAA 60
Db |||||
QY 61 GTATTATCGTGGCTTCTTTCTGCTGAGGACACATTCGAAGCAGCAAGGAGAGATTTCTAAT 120
Db |||||
QY 1259 GTATTATCGTGGCTTCTTTCTGCTGAGGACACATTCGAAGCAGCAAGGAGAGATTTCTAAT 1318
Db |||||
QY 121 GATGTGGAAGTGGTGAAGACCAAGTTCATCTCATGAGGGTACATGATGGAATTTGACA 180
Db |||||
QY 1319 GATGTGGAAGTGGTGAAGACCAAGTTCATCTCATGAGGGTACATGATGGAATTTGACA 1378
Db |||||
QY 181 GCCCATCAGGCGCGGTTGGTAAATTTCTAATTTGGAAGTAAAGCTGATTTGGAACAGGA 240
Db |||||
QY 1379 GCCCATCAGGCGCGGTTGGTAAATTTCTAATTTGGAAGTAAAGCTGATTTGGAACAGGA 1438
Db |||||

QY 241 AAATTATCAGAAGATGAAGAAAACCTGAAGTACAGAGCAGATGAATCTCCTAAATTTCAAGA 300
Db |||||
QY 1439 AAATTATCAGAAGATGAAGAAAACCTGAAGTACAGAGCAGATGAATCTCCTAAATTTCAAGA 1498
Db |||||
QY 301 TGGGAATGCCTCAGGCTAGCTAGCATGGAAGAAAACAAAGCAATTTACATAGAGTTTAAATG 360
Db |||||
QY 1499 TGGGAATGCCTCAGGCTAGCTAGCATGGAAGAAAACAAAGCAATTTACATAGCTCCTGGACTG 1558
Db |||||
QY 361 GATCTCCAGAATCAGAAAACCTGAAAGAGTTGAATGACTGGCTAACAAAAACAGAGAAAGA 420
Db |||||
QY 1559 ----- 1558
QY 421 ACAAGGAAAATGGAGGAAGAGCCCTCTTGGACCTGATCTTTGAAGACCTTAAACGCCAAGTA 480
Db |||||
QY 1559 -----ACCCTATTGGAGCCTCTCCTACTCAGACTGTTACTCTGGTG 1600
Db |||||
QY 481 CAACAACATAAGGTGCTTCAAGAAGATCTAGAACAAAGCAAGTCAAGGTCAATTTCTCTC 540
Db |||||
QY 1601 ACACAACCTGTGGTTACTAAGGAAACTGCCATCTCCAAACTAGAAATGCCATCTTCTCTG 1660
Db |||||
QY 541 ACTCACATGTTGGTGGTAGTTGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAA 600
Db |||||
QY 1661 ATGTTGGAG----- 1669
QY 601 GAACAACTTAAGGTATTGGGAGATCGATGGGCAAAACATCTGTAGATGGACAGAACCCGC 660
Db |||||
QY 1670 ----- 1669
QY 661 TGGGTTCTTTTACAAGACACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAAG 720
Db |||||
QY 1670 -----CATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAAG 1708
Db |||||
QY 721 TTTCTTGCCTGCTTACAGAAGCTGAAACAACTGCCAATGTCTACAGGATGCTACCCGT 780
Db |||||
QY 1709 TTTCTTGCCTGCTTACAGAAGCTGAAACAACTGCCAATGTCTACAGGATGCTACCCGT 1768
Db |||||
QY 781 AAGGAAAGGCTCCTAGAAGACTCCAGGAGTAAAGAGCTGATGAAACAAATGGCAAGAC 840
Db |||||
QY 1769 AAGGAAAGGCTCCTAGAAGACTCCAGGAGTAAAGAGCTGATGAAACAAATGGCAAGAC 1828
Db |||||
QY 841 CTCCAAGGTGAAATGAAGCTCACACAGATGTTTATCACAACCTGGATGAAACAGCCAA 900
Db |||||
QY 1829 CTCCAAGGTGAAATGAAGCTCACACAGATGTTTATCACAACCTGGATGAAACAGCCAA 1888
Db |||||
QY 901 AAAATCCTGAGATCCCTGGAAGGTTCCGATGATGAGTCCCTGTACAAAGACGTTTGGAT 960
Db |||||
QY 1889 AAAATCCTGAGATCCCTGGAAGGTTCCGATGATGAGTCCCTGTACAAAGACGTTTGGAT 1948
Db |||||
QY 961 AACATGAACCTCAAGTGGAGTGAACCTTCGGAAGAAAGTCTCTCAACATTAGTCCCATTTG 1020
Db |||||
QY 1949 AACATGAACCTCAAGTGGAGTGAACCTTCGGAAGAAAGTCTCTCAACATTAGTCCCATTTG 2008
Db |||||
QY 1021 GAAGCCAGTTCTGACCAGTGAAGGCTGTGCACCTTTCTCTGAGGAACTTCTGTTGGTG 1080
Db |||||
QY 2009 GAAGCCAGTTCTGACCAGTGAAGGCTGTGCACCTTTCTCTGAGGAACTTCTGTTGGTG 2068
Db |||||
QY 1081 CTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACTTATGGAGGCGACTTTCCAGCA 1140
Db |||||
QY 2069 CTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACTTATGGAGGCGACTTTCCAGCA 2128
Db |||||
QY 1141 GTTCAGAGCAGAACCGATGTACATAGGGCCTTCAAGAGGGGAAATTTGAAACCTAAAGAACCT 1200
Db |||||
QY 2129 GTTCAGAGCAGAACCGATGTACATAGGGCCTTCAAGAGGGGAAATTTGAAACCTAAAGAACCT 2188
Db |||||
QY 1201 GTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGA 1260
Db |||||
QY 2189 GTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGA 2248
Db |||||
QY 1261 CTAGAGAAACTCTACAGGAGCCAGAGAGCTGCCTCTCTGAGGAGAGAGCCCGCAAGATGTC 1320
Db |||||
QY 2249 CTAGAGAAACTCTACAGGAGCCAGAGAGCTGCCTCTCTGAGGAGAGAGCCCGCAAGATGTC 2308
Db |||||

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QY 1321 ACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATCTAGCTGGGAAAAATTGAACCTG 1380
Db 2309 ACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATCTAGCTGGGAAAAATTGAACCTG 2368

QY 1381 CACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTCAA 1440
Db 2369 CACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTCAA 2428

QY 1441 GAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGTGTGATCAAGGGATCCTGG 1500
Db 2429 GAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGTGTGATCAAGGGATCCTGG 2488

QY 1501 C 1501
Db 2489 C 2489

RESULT 11
US-09-845-416-10
; Sequence 10, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-10

Query Match 55.8%; Score 837; DB 10; Length 3531;
Best Local Similarity 78.2%; Pred. No. 1.7e-234;
Matches 1174; Conservative 0; Mismatches 0; Indels 327; Gaps 1;

QY 1 GGCAGTTCATTGATGGAGAGTGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAGAA 60
Db 1000 GGCAGTTCATTGATGGAGAGTGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAGAA 1059

QY 61 GTATTATCGTGGCTTCTTCTGCTGAGGACACATTCGAAAGCACAAGGAGAGATTCTAAT 120
Db 1060 GTATTATCGTGGCTTCTTCTGCTGAGGACACATTCGAAAGCACAAGGAGAGATTCTAAT 1119

QY 121 GATGTGGAAGTGGTGAAGACCAAGTTCATCTCATGAGGGGTACATGATGATTTGACA 180
Db 1120 GATGTGGAAGTGGTGAAGACCAAGTTCATCTCATGAGGGGTACATGATGATTTGACA 1179

QY 181 GCCCATCAGGCGCGGTTGGTAATATTCTACAATTGGGAAGTAAGCTGATTGGAACAGGA 240
Db 1180 GCCCATCAGGCGCGGTTGGTAATATTCTACAATTGGGAAGTAAGCTGATTGGAACAGGA 1239

QY 241 AAATTATCAGAAGATGAAGAAACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAAGA 300
Db 1240 AAATTATCAGAAGATGAAGAAACTGAAGTACAAGAGCAGATGAATCTCCTAAATTCAAGA 1299

QY 301 TGGGAATGCTTCAGGGTAGCTAGCATGGAAAAACAAGCAATTTACATAGATTTAATG 360
Db 1300 TGGGAATGCTTCAGGGTAGCTAGCATGGAAAAACAAGCAATTTACATAGA ----- 1350

QY 361 GATCTCCAGAATCAGAAACTGAAAGAGTTGAATGACTGGTAAACAAAAACAGAAAGA 420
Db 1351 ----- 1350

QY 421 ACAAGGAAATGGAGGAAGAGCCCTTGTGACCTGATCTTGAAGACCTTAAACGCCAAGTA 480
Db 1351 ----- 1350
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QY 481 CAACAACATAAAGTGCTTCAAGAAGATCTAGAAACAAGTCAAGTCAATTCTCTC 540
Db 1351 ----- 1350

QY 541 ACTCACATGGTGGTGTAGTTGATGAATCTAGTGGAGATCACGCAACTGCTTTGGAA 600
Db 1351 ----- 1350

QY 601 GAACAACCTTAAGGTATTGGGAGATCGATGGGCAAAACATCTGTAGATGGACAGAACCGC 660
Db 1351 ----- 1350

QY 661 TGGGTTCTTTTACAGACACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGAAAAAG 720
Db 1351 ----- 1350

QY 721 TTTCTTGCCTGGCTTACAGAAGCTGAAACAACTGCCAATGTCTACAGGATGCTACCCGT 780
Db 1393 TTTCTTGCCTGGCTTACAGAAGCTGAAACAACTGCCAATGTCTACAGGATGCTACCCGT 1452

QY 781 AAGGAAAGGCTCCTAGAAAGACTCCAAGGGAGTAAAGAGCTGTATGAAACAATGGCAAGAC 840
Db 1453 AAGGAAAGGCTCCTAGAAAGACTCCAAGGGAGTAAAGAGCTGTATGAAACAATGGCAAGAC 1512

QY 841 CTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACAGCCAA 900
Db 1513 CTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACAGCCAA 1572

QY 901 AAATATCTGAGATCCCTGGAAGGTTCCGATGATGTCAGTCTCTTACAAAGACGTTTGGAT 960
Db 1573 AAATATCTGAGATCCCTGGAAGGTTCCGATGATGTCAGTCTCTTACAAAGACGTTTGGAT 1632

QY 961 AACATGAACTTCAAGTGGAGTGAACCTTCGGAAGAAAGTCTCTCAACATTAGTCCCATTTG 1020
Db 1633 AACATGAACTTCAAGTGGAGTGAACCTTCGGAAGAAAGTCTCTCAACATTAGTCCCATTTG 1692

QY 1021 GAAGCCAGTTCTGACCAGTGGAAAGCGTCTGCACCTTCTCTGCAGGAACTTTCAGCA 1140
Db 1693 GAAGCCAGTTCTGACCAGTGGAAAGCGTCTGCACCTTCTCTGCAGGAACTTTCAGCA 1752

QY 1081 CTACAGCTGAAAGATGATGAATTAAGCCGGCAGGACCTATTTGAGGCGGACCTTCCAGCA 1812
Db 1753 CTACAGCTGAAAGATGATGAATTAAGCCGGCAGGACCTATTTGAGGCGGACCTTCCAGCA 1812

QY 1141 GTTCAGAAAGCAGAACGATGATACATAGGGCCTTCAAGAGGGAATTTGAAACTTAAAGAACCT 1200
Db 1813 GTTCAGAAAGCAGAACGATGATACATAGGGCCTTCAAGAGGGAATTTGAAACTTAAAGAACCT 1872

QY 1201 GTATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGGA 1260
Db 1873 GTATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAGGA 1932

QY 1261 CTAGAGAAACTCTACCAGGAGCCAGAGAGCTGCCCTCCTGAGGAGAGAGCCAGAAATGTC 1320
Db 1933 CTAGAGAAACTCTACCAGGAGCCAGAGAGCTGCCCTCCTGAGGAGAGAGCCAGAAATGTC 1992

QY 1321 ACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAAATTGAACCTG 1380
Db 1993 ACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAAATTGAACCTG 2052

QY 1381 CACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCAA 1440
Db 2053 CACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTTCAA 2112

QY 1441 GAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGTGTGATCAAGGGATCCTGG 1500
Db 2113 GAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGTGTGATCAAGGGATCCTGG 2172

QY 1501 C 1501
Db 2173 C 2173
```


RESULT 12
US-09-845-416-30
; Sequence 30, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 30
; LENGTH: 4498
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-30

Query Match 55.8%; Score 837; DB 10; Length 4498;
Best Local Similarity 78.2%; Pred. No. 2e-234;
Matches 1174; Conservative 0; Mismatches 0; Indels 327; Gaps 1;

QY	1	GGCAGTTCAATGATGAGAGTGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAAGAA	60
Db	1757	GGCAGTTCAATGATGAGAGTGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAAGAA	1816
QY	61	GTATTATCGTGGCTTCTTTCTGCTGAGGACACATTGCAAGCACAGGAGAGATTTCTTAAT	120
Db	1817	GTATTATCGTGGCTTCTTTCTGCTGAGGACACATTGCAAGCACAGGAGAGATTTCTTAAT	1876
QY	121	GATGTGGAAGTGGTGAAGACCAAGTTTCTACTACTCATGAGGGGTACATGATGGATTGACA	180
Db	1877	GATGTGGAAGTGGTGAAGACCAAGTTTCTACTACTCATGAGGGGTACATGATGGATTGACA	1936
QY	181	GCCCATCAGGCGCGGTTGGTAATATTCTACAAATTGGGAAGTAAGCTGATTGGAAACAGGA	240
Db	1937	GCCCATCAGGCGCGGTTGGTAATATTCTACAATTGGGAAGTAAGCTGATTGGAAACAGGA	1996
QY	241	AAATTATCAGAAGATGAAGAAACTGAAGTCAAGAGCAGATGAATCTCTAAATTCAAGA	300
Db	1997	AAATTATCAGAAGATGAAGAAACTGAAGTCAAGAGCAGATGAATCTCTAAATTCAAGA	2056
QY	301	TGGGAATGCTCAGGGTAGCTAGCATGGAAAAACAAAGCAATTTACATAGATTTTAATG	360
Db	2057	TGGGAATGCTCAGGGTAGCTAGCATGGAAAAACAAAGCAATTTACATAGA-----	2107
QY	361	GATCTCCAGAAATCAGAAACTGAAGAGTTGAATGACTGGCTAAACAAAACAGAAAGAA	420
Db	2108	-----	2107
QY	421	ACAAGGAAATGGAGGAAGAGCGCTCTTGGACCTGATCTTGAAGACCTAAACCGCAAGTA	480
Db	2108	-----	2107
QY	481	CAACAACATAAGGTGCTTCAAGAAGATCTAGAACAAGAAACAAGTCAGGGTCAATTTCTCTC	540
Db	2108	-----	2107
QY	541	ACTCACATGGTGGTGGTAGTTGATGAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAA	600
Db	2108	-----	2107
QY	601	GAACAACCTTAAGGTATTGGGAGATCGATGGGCAACATCTGTAGATGGACAGAAGACCGC	660
Db	2108	-----	2107
QY	661	TGGGTCTTTTACAAGACACTCATAGATTACTGCAACAGTTCCCGCTGGACCTGGAAAAG	720
Db	2108	-----ACTCATAGATTACTGCAACAGTTCCCGCTGGACCTGGAAAAG	2149

QY	721	TTTCTTGCCTGGCTTACAGAAAGCTGAAACAACCTGCCAATGTCTCTACAGATGCTACCCGT	780
Db	2150	TTTCTTGCCTGGCTTACAGAAAGCTGAAACAACCTGCCAATGTCTCTACAGATGCTACCCGT	2209
QY	781	AAGGAAAGGCTCCTAGAAAGCTCCAAAGGGAGTAAAGAGCTGATGAACAATGGCAAGAC	840
Db	2210	AAGGAAAGGCTCCTAGAAAGCTCCAAAGGGAGTAAAGAGCTGATGAACAATGGCAAGAC	2269
QY	841	CTCCAAGGTGAATTTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAACACAGCAA	900
Db	2270	CTCCAAGGTGAATTTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAACACAGCAA	2329
QY	901	AAATCCTGAGTCCCTGGAAGTTCCGATGATGAGTCCCTGTTACAAAGACGTTTGGAT	960
Db	2330	AAATCCTGAGTCCCTGGAAGTTCCGATGATGAGTCCCTGTTACAAAGACGTTTGGAT	2389
QY	961	AACATGAACCTTCAAGTGGAGTGAACCTTCGAAAAAAGTCTCTCAACATTAGGTCCCATTTG	1020
Db	2390	AACATGAACCTTCAAGTGGAGTGAACCTTCGAAAAAAGTCTCTCAACATTAGGTCCCATTTG	2449
QY	1021	GAAGCCAGTTCTGACCAAGTGAAGCGTCTGCACCTTTCTCTCGAGGAACCTTCTGGTGG	1080
Db	2450	GAAGCCAGTTCTGACCAAGTGAAGCGTCTGCACCTTTCTCTCGAGGAACCTTCTGGTGG	2509
QY	1081	CTACAGCTGAAGATGATGAATTAAGCGGCGAGGACCTATTGAGGCGGACCTTTCCAGCA	1140
Db	2510	CTACAGCTGAAGATGATGAATTAAGCGGCGAGGACCTATTGAGGCGGACCTTTCCAGCA	2569
QY	1141	GTTCAGAAGCAGAACGATGTACATAGGCGCTTCAAGAGGGAATTTGAAAACTAAAGAACCT	1200
Db	2570	GTTCAGAAGCAGAACGATGTACATAGGCGCTTCAAGAGGGAATTTGAAAACTAAAGAACCT	2629
QY	1201	GTAATCATGAGTACTTCTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTTGGAAAGGA	1260
Db	2630	GTAATCATGAGTACTTCTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTTGGAAAGGA	2689
QY	1261	CTAGAGAAACTCTACAGGAGCCCAAGAGAGCTGCCTCCTGAGGAGAGAGCCCAAGATGTC	1320
Db	2690	CTAGAGAAACTCTACAGGAGCCCAAGAGAGCTGCCTCCTGAGGAGAGAGCCCAAGATGTC	2749
QY	1321	ACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAAATTGAACCTG	1380
Db	2750	ACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAAATTGAACCTG	2809
QY	1381	CACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTCAA	1440
Db	2810	CACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACCTCAA	2869
QY	1441	GAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCTCTGG	1500
Db	2870	GAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCTCTGG	2929
QY	1501	C 1501	
Db	2930	C 2930	

RESULT 13
US-10-149-736-42
; Sequence 42, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott Q.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06


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; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 42
; LENGTH: 8689
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-42

Query Match      55.7%; Score 835.6; DB 16; Length 8689;
Best Local Similarity 97.3%; Pred. No. 7.7e-234;
Matches 850; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 628 TGGGCAACATCTGTAGATGGACAGAACCGCTGGGTTCTTTTACAAGACACTCATAGA 687
Db 2948 TGGAGAAGCATTCATAAAGGCTGAGTGAGCGAGAGGCTGCTTTGGAAGAACTCATAGA 3007

QY 688 TTACTGCAACAGTTCCTCCCTGGACCTGGAAAAGTTTCTTGCTGGCTTACAGAAGCTGAA 747
Db 3008 TTACTGCAACAGTTCCTCCCTGGACCTGGAAAAGTTTCTTGCTGGCTTACAGAAGCTGAA 3067

QY 748 ACAACTGCCAATGTCTACAGGATGCTACCCGTAAGGAAAGGCTCCTAGAAGACTCCAAG 807
Db 3068 ACAACTGCCAATGTCTACAGGATGCTACCCGTAAGGAAAGGCTCCTAGAAGACTCCAAG 3127

QY 808 GGAGTAAAGAGCTGATGAAACAAATGGCAAGACTCCTCAAGGTGAAATTGAAGCTCACACA 867
Db 3128 GGAGTAAAGAGCTGATGAAACAAATGGCAAGACTCCTCAAGGTGAAATTGAAGCTCACACA 3187

QY 868 GATGTTTATCACAACTGGATGAAACACAGCCAAATAATCCTGAGATCCTGGAAAGTTCC 927
Db 3188 GATGTTTATCACAACTGGATGAAACACAGCCAAATAATCCTGAGATCCTGGAAAGTTCC 3247

QY 928 GATGATGCAGTCTGTACAAAAGACGTTTGGATFAACATGAACCTTCAAGTGGAGTGAACCT 987
Db 3248 GATGATGCAGTCTGTACAAAAGACGTTTGGATFAACATGAACCTTCAAGTGGAGTGAACCT 3307

QY 988 CGGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAAGCCAGTTCTGACCAAGTGAAGCGT 1047
Db 3308 CGGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAAGCCAGTTCTGACCAAGTGAAGCGT 3367

QY 1048 CTGCACCTTTCTCTGCAGGAAGTCTTGCTGGTGTGCTACAGCTGAAAGATGATGAATTAAGC 1107
Db 3368 CTGCACCTTTCTCTGCAGGAAGTCTTGCTGGTGTGCTACAGCTGAAAGATGATGAATTAAGC 3427

QY 1108 CGGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTCAGAAAGCAGAACGATGTACATAGG 1167
Db 3428 CGGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTCAGAAAGCAGAACGATGTACATAGG 3487

QY 1168 GCCTTCAAGAGGGGAATTGAAAACCTTAAGAACCTGTAAATCATGACTCTTTGAGACTGTA 1227
Db 3488 GCCTTCAAGAGGGGAATTGAAAACCTTAAGAACCTGTAAATCATGACTCTTTGAGACTGTA 3547

QY 1228 CGAATATTTCTGACAGAGAGAGCCCTTTGGAAGGACTAGAGAACTCTACCAGAGGCCCAGA 1287
Db 3548 CGAATATTTCTGACAGAGAGAGCCCTTTGGAAGGACTAGAGAACTCTACCAGAGGCCCAGA 3607

QY 1288 GAGTGCCTCCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAG 1347
Db 3608 GAGTGCCTCCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAG 3667

QY 1348 GAGGTCAATACTGAGTGGGAAAATAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAATA 1407
Db 3668 GAGGTCAATACTGAGTGGGAAAATAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAATA 3727

QY 1408 GATGAGACCTTTGAAAGACTCCAGGAACCTTCAAGAGGCGACCGATGAGCTGGACCTCAAG 1467
Db 3728 GATGAGACCTTTGAAAGACTCCAGGAACCTTCAAGAGGCGACCGATGAGCTGGACCTCAAG 3787

QY 1468 CTGCGCAAGCTGAGGTGATCAAGGGATCCTGGC 1501
Db 3788 CTGCGCAAGCTGAGGTGATCAAGGGATCCTGGC 3821
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RESULT 14
US-09-845-416-1
; Sequence 1, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 11058
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-1

Query Match      55.7%; Score 835.6; DB 10; Length 11058;
Best Local Similarity 97.3%; Pred. No. 9e-234;
Matches 850; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 628 TGGGCAACATCTGTAGATGGACAGAAAGCCGCTGGGTTCTTTTACAAGACACTCATAGA 687
Db 8008 TGGAGAAGCATTCATAAAGGCTGAGTGAGCGGAGAGCGTCTTTTGAAGAACTCATAGA 8067

QY 688 TTACTGCAACAGTTCCTCCCTGGACCTGGAAAAGTTTCTTGCTGGCTTACAGAAGCTGAA 747
Db 8068 TTACTGCAACAGTTCCTCCCTGGACCTGGAAAAGTTTCTTGCTGGCTTACAGAAGCTGAA 8127

QY 748 ACAACTGCCAATGTCTACAGGATGCTACCCGTAAGGAAAGGCTCCTAGAAGACTCCAAG 807
Db 8128 ACAACTGCCAATGTCTACAGGATGCTACCCGTAAGGAAAGGCTCCTAGAAGACTCCAAG 8187

QY 808 GGAGTAAAGAGCTGATGAAACAAATGGCAAGACTCCTCAAGGTGAAATTGAAGCTCACACA 867
Db 8188 GGAGTAAAGAGCTGATGAAACAAATGGCAAGACTCCTCAAGGTGAAATTGAAGCTCACACA 8247

QY 868 GATGTTTATCACAACTGGATGAAACACAGCCAAATAATCCTGAGATCCTGGAAGGTTCC 927
Db 8248 GATGTTTATCACAACTGGATGAAACACAGCCAAATAATCCTGAGATCCTGGAAGGTTCC 8307

QY 928 GATGATGCAGTCTGTACAAAAGACGTTTGGATAACATGAACCTTCAAGTGGAGTGAACCT 987
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QY 988 CGGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAAGCCAGTTCTGACCAAGTGAAGCGT 1047
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QY 1048 CTGCACCTTTCTCTGCAGGAACCTTCTTGCTGGTGTGCTACAGCTGAAAGATGATGAATTAAGC 1107
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QY 1108 CGGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTCAGAAAGCAGAACGATGTACATAGG 1167
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QY 1228 CGAATATTTCTGACAGAGAGAGCCCTTTGGAAGGACTAGAGAACTCTACCAGAGGCCCAGA 1287
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QY 1288 GAGTGCCTCCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAG 1347
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RESULT 15
US-10-149-736-44
; Sequence 44, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott Q.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 44
; LENGTH: 11443
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-44

Query Match 55.7%; Score 835.6; DB 16; Length 11443;
Best Local Similarity 97.3%; Pred. No. 9.2e-234;
Matches 850; Conservative 0; Mismatches 24; Indels 0; Gaps 0;
QY 628 TGGGCAACATCTGTAGATGGACAGAACCGCTGGTCTTTTACAAGACACTCATAGA 687
Db 5702 TGGAGAAGCATTCATAAAAGGTTGAGTGAGCGAGAGGCTGCTTTGGAAGAACTCATAGA 5761
QY 688 TTACTGCAACAGTCCCTGGACCTGGAAAAGTTTCTTGCCCTGGCTTACAGAAGCTGAA 747
Db 5762 TTACTGCAACAGTCCCTGGACCTGGAAAAGTTTCTTGCCCTGGCTTACAGAAGCTGAA 5821
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QY 928 GATGATGCAGTCTGTACAAAGACGTTTGGATAACATGAACCTTCAAGTGGAGTGAACCT 987
Db 6002 GATGATGCAGTCTGTACAAAGACGTTTGGATAACATGAACCTTCAAGTGGAGTGAACCT 6061
QY 988 CGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTCTGACCAGTGGAAAGCT 1047
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QY 1048 CTGCACCTTTCTCTGCAGGAACCTTCTGGTGGCTACAGCTGAAAGATGATGAATTAAGC 1107

Db 6122 CTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGCTACAGCTGAAAGATGATGAATTAAGC 6181
QY 1108 CGGCAGGCACCTATTGAGGGCGACTTTCCAGCAGTTTCAGAAGCAGAACGATGTACATAGG 1167
Db 6182 CGGCAGGCACCTATTGAGGGCGACTTTCCAGCAGTTTCAGAAGCAGAACGATGTACATAGG 6241
QY 1168 GCCTTCAAGAGGGAAATTGAAAACTAAAGAACCTGTAAATCATGAGTACTCTTGAGACTGTA 1227
Db 6242 GCCTTCAAGAGGGAAATTGAAAACTAAAGAACCTGTAAATCATGAGTACTCTTGAGACTGTA 6301
QY 1228 CGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAAACTCTTACCAGGAGCCCA 1287
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Db 6422 GAGGTCAATACTAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATA 6481
QY 1408 GATGAGACCCCTTGAAGAAGCTCCAGGAACCTTCAAGAGGCCACCGATGAGCTGGACCTCAAG 1467
Db 6482 GATGAGACCCCTTGAAGAAGCTCCAGGAACCTTCAAGAGGCCACCGATGAGCTGGACCTCAAG 6541
QY 1468 CTGCGCCAAGCTGAGGTGATCAAGGGATCCTGGC 1501
Db 6542 CTGCGCCAAGCTGAGGTGATCAAGGGATCCTGGC 6575

Search completed: September 14, 2004, 08:11:36
Job time : 745.333 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 14, 2004, 01:18:23 ; Search time 109.667 Seconds
(without alignments)
7595.574 Million cell updates/sec

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Perfect score: 1501
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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	835.6	55.7	5952	US-09-687-875A-1	Sequence 1, Appli
2	835.6	55.7	13977	US-09-484-970B-60	Sequence 60, Appl
3	720.4	48.0	19307	US-08-836-022A-10	Sequence 10, Appl
4	720.4	48.0	19307	US-09-427-048A-10	Sequence 10, Appl
5	271.6	18.1	6045	US-09-091-501B-7	Sequence 7, Appli
6	271.6	18.1	10320	US-09-091-501B-9	Sequence 9, Appli
7	136.8	9.1	3915	US-09-976-594-93	Sequence 93, Appl
8	79.4	5.3	200	US-09-091-501B-5	Sequence 5, Appli
9	78.6	5.2	200	US-09-091-501B-4	Sequence 4, Appli
10	78.6	5.2	200	US-09-091-501B-6	Sequence 6, Appli
11	76.6	5.1	7218	US-08-232-463-14	Sequence 14, Appl
12	63.6	4.2	238	US-09-687-875A-13	Sequence 13, Appl
13	46.2	3.1	505	US-09-621-976-15639	Sequence 15639, A
14	44	2.9	1230025	US-09-198-452A-1	Sequence 1, Appli
15	43.4	2.9	1179	US-09-107-532A-1186	Sequence 1186, Ap
16	40.4	2.7	832	US-09-621-976-2813	Sequence 2813, Ap
17	40.4	2.7	2223	US-08-257-073-4	Sequence 4, Appli
18	39.2	2.6	16995	US-08-961-527-82	Sequence 82, Appl
19	38.6	2.6	1751	US-09-620-312D-847	Sequence 847, App
20	38.2	2.5	1131	US-0810-3	Patent No. 5180810
21	38.2	2.5	1784	US-0810-2	Patent No. 5180810
22	38.2	2.5	1995	US-08-425-069-3	Sequence 3, Appli
23	38.2	2.5	1995	US-08-317-844B-3	Sequence 3, Appli
24	38	2.5	1394	US-09-247-155-76	Sequence 76, Appl
25	36.8	2.5	1886	US-08183-1	Patent No. 5210183
26	36.6	2.4	1845	US-08-887-534A-22	Sequence 22, Appl
27	36.6	2.4	1845	US-09-527-431-22	Sequence 22, Appl

C	28	36.6	2.4	7075	4	US-08-956-171B-263	Sequence 263, App
	29	36.2	2.4	289	3	US-09-007-005-17	Sequence 17, Appl
	30	36.2	2.4	289	3	US-09-244-796-17	Sequence 17, Appl
	31	36.2	2.4	2447	2	US-09-014-969-14	Sequence 14, Appl
C	32	36.2	2.4	11049	4	US-10-204-708-23	Sequence 23, Appl
	33	36.2	2.4	168575	4	US-09-426-290-1	Sequence 1, Appli
C	34	36	2.4	724	4	US-08-956-171E-832	Sequence 832, App
	35	36	2.4	2873	4	US-08-630-915A-193	Sequence 193, App
	36	35.8	2.4	790	3	US-09-461-474-13	Sequence 13, Appl
	37	35.6	2.4	4868	1	US-08-139-937-12	Sequence 12, Appl
	38	35.6	2.4	4868	5	PCT-US93-11310-12	Sequence 12, Appl
	39	35.6	2.4	5934	4	US-09-418-710-2	Sequence 2, Appli
	40	35.6	2.4	7672	4	US-09-220-132-24	Sequence 24, Appl
	41	35.6	2.4	8257	4	US-09-595-684B-30	Sequence 30, Appl
	42	35.6	2.4	8789	1	US-08-328-254-5	Sequence 5, Appli
	43	35.6	2.4	10136	1	US-08-353-700-2	Sequence 2, Appli
	44	35.6	2.4	10136	5	PCT-US95-16216-2	Sequence 2, Appli
	45	35.2	2.3	399	4	US-09-621-976-8976	Sequence 8976, Ap

ALIGNMENTS

RESULT 1
US-09-687-875A-1
; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Xiao
; APPLICANT: Liu, Paul
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPLICED PE
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687,875A
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158,868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
US-09-687-875A-1

Query Match	55.7%;	Score	835.6;	DB	4;	Length	5952;
Best Local Similarity	97.3%;	Pred. No.	7.5e-244;				
Matches	850;	Conservative	0;	Mismatches	24;	Indels	0;
						Gaps	0;
QY	628	TGGGCAACATCTGTAGATGGACAGAACCGCTGGGTTCTTTTACAAGACACTCATAGA	687				
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QY	688	TTACTGCAACAGTTCCCTCGACCTGGAAAGTTTCTTTCCTGGCTTACAGAAGCTGAA	747				
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QY	748	ACAACTGCCAATGCTCTACAGATGCTACCCGTAAGGAAGGCTCCTAGAAGACTCCAAG	807				
Db	3022	ACAACTGCCAATGCTCTACAGATGCTACCCGTAAGGAAGGCTCCTAGAAGACTCCAAG	3081				
QY	808	GGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAAATTGAAGCTCACACA	867				
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QY	868	GATGTTTATCAACACTGGATGTAACAGCCAAAAATCCTGAGATCCCTGGAAGTTCC	927				

Db 3142 GATGTTTATCACAACTGTGATGAAACAGCCAAAATAATCCTGAGATCCCTGGAAGTTCC 3201
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QY 988 CGGAAAAAGTCTCTCAACATAGGTCCCATTTGGAAAGCCAGTTCTGACCAAGTGAAGCGT 1047
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Db 3322 CTGCACCTTTCTCTGCAGGAACTTCTGGTGTGGCTACAGCTGAAAGATGATGAATTAAGC 3381
QY 1108 CGGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTTCCAGAGCAGACGATGTACATAGG 1167
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QY 1168 GCCTTCAAGAGGGAATTTGAAACTAAAGAACCTGTAAATCATGAGTACTCTTGAGACTGTA 1227
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RESULT 2

US-09-484-970B-60
; Sequence 60, Application US/09484970B
; Patent No. 6426186

GENERAL INFORMATION:

; APPLICANT: Jones, Karen A.
; APPLICANT: Volkmuth, Wayne
; APPLICANT: Walker, Michael G.
; TITLE OF INVENTION: BONE REMODELING GENES
; FILE REFERENCE: PB-0014 US
; CURRENT APPLICATION NUMBER: US/09/484,970B
; CURRENT FILING DATE: 2000-01-18

; NUMBER OF SEQ ID NOS: 172

; SOFTWARE: PERL Program

; SEQ ID NO 60

; LENGTH: 13977

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc feature

; OTHER INFORMATION: Incyte ID No. 6426186 229357.11CBI

; NAME/KEY: unsure

; LOCATION: 11721-11761, 12294, 13969

; OTHER INFORMATION: a, t, c, g, or other

US-09-484-970B-60

Query Match

Best Local Similarity 55.7%; Score 835.6; DB 4; Length 13977;

Matches 850; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 628 TGGGCAAAACATCTGTAGATGGACAGAACCGCTGGGTTCTTTTACAGACACTCATAGA 687
Db 8216 TGGAGAAGCATTTATAAAAGGGTGAGTGAGCAGAGGCTGCTTTGGAGAAACTCATAGA 8275
QY 688 TTAAGTCAACAGTTCCCTGACCTGGACCTGGAAAGTTTCTTGGCTGGCTTACAGAAAGCTGAA 747
Db 8276 TTAAGTCAACAGTTCCCTGACCTGGACCTGGAAAGTTTCTTGGCTGGCTTACAGAAAGCTGAA 8335
QY 748 ACAACTGCCAATGTCTACAGGATGCTACCCGTAAGGAAAGGCTCTTACAGAAAGCTCCCAAG 807
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Db 8396 GGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAATTTGAAGCTCACACA 8455
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QY 988 CGGAAAAAGTCTCTCAACATTAAGTCCCAATTTGGAAGCCAGTTCTGACCAAGTGAAGCGT 1047
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QY 1288 GAGCTGCCTCCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAG 1347
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Db 8936 GAGGTCAATACTGAGTGGGAAAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATA 8995
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Db 9056 CTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGC 9089

RESULT 3

US-08-836-022A-10/c
; Sequence 10, Application US/08836022A
; Patent No. 6001557

GENERAL INFORMATION:

; APPLICANT: Trustees of the University of Pennsylvania
; APPLICANT: Wilson, James M.
; APPLICANT: Fisher, Krishna J.
; APPLICANT: Chen, Shu-Jen
; APPLICANT: Weitzman, Matthew
; TITLE OF INVENTION: Improved Adenovirus Virus and
; NUMBER OF SEQUENCES: 10

;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Howson and Howson
;; STREET: Spring House Corporate Cntr, P O Box 457
;; CITY: Spring House
;; STATE: Pennsylvania
;; COUNTRY: USA
;; ZIP: 19477
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent In Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/836,022A
;; FILING DATE:
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/331,381
;; FILING DATE: 28-OCT-1994
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Bak, Mary E.
;; REGISTRATION NUMBER: 31,215
;; REFERENCE/DOCKET NUMBER: GNVNPN.008PCT
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 215-540-9200
;; TELEFAX: 215-540-5818
;; INFORMATION FOR SEQ ID NO: 10:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 19307 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: double
;; TOPOLOGY: unknown
;; MOLECULE TYPE: CDNA
US-08-836-022A-10

Query Match 48.0%; Score 720.4; DB 3; Length 19307;
Best Local Similarity 89.0%; Pred. No. 2e-208;
Matches 778; Conservative 0; Mismatches 96; Indels 0; Gaps 0;

QY 628 TGGGCAACATCTGTAGTGGACAGAACCGCTGGGTTCTTTTACAAGACACTCATAGA 687
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QY 688 TTAGTCAACAGTTCCCTCGGACCTGGAAAGTTTCTTGCCTGGCTTACAGAAGCTGAA 747
Db 6418 TTAGTCAACAGTTCCCTCGGACCTGGAGAGTTTCTTCTGGATTACGGAAGCAGAA 6359

QY 748 ACAACTGCCAATGTCTACAGGATGTACCCGTAAGAAAGGCTCCTAGAACACTCCAAG 807
Db 6358 ACAACTGCCAATGTCTACAGGACGTTCCCGTAAGAGAAAGCTCCTAGAACACTCCAAG 6299

QY 808 GGAGTAAAGAGCTGATGAACAATGGCAAGACCTCAAGGTGAAATTGAAGTCAACACA 867
Db 6298 GGAGTCAAGAGCTGATGAACAATGGCAAGATCTCCAAGGAGAAATTGAAACTCACACA 6239

QY 868 GATGTTATCACAACTGTGATGAAAGACGTTTGGATAACATGAACCTTCAAGTGGAGTGAACCT 927
Db 6238 GATGTTATCACAACTGTGATGAAAGACGTTTGGATAACATGAACCTTCAAGTGGAGTTCG 6179

QY 928 GATGATGAGTCTGTTACAAAGACGTTTGGATAACATGAACCTTCAAGTGGAGTGAACCT 987
Db 6178 GATGATGAGTCTGTTACAAAGACGTTTGGATAACATGAACCTTCAAGTGGAGTGAACCT 6119

QY 988 CGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAGCCAGCTTCTGACCCAGTGGAGCGGT 1047
Db 6118 CAGAAAAAGTCTCTCAACATTAGTCCCATTTGGAGCCAGCTTCTGACCCAGTGGAGCGGT 6059

QY 1048 CTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAAAGATGATGAATTAAGC 1107
Db 6058 TTGCATCTTTCTCTTCAGGAACCTTCTGTTGGCTACAGCTGAAAGATGATGAATTAAGC 5999

QY 1108 CGGAGGACCTATTGGAGGGGAGCTTCCAGCAGTTCCAGAACAGACGATGTACATAGG 1167
Db 1108 CGGAGGACCTATTGGAGGGGAGCTTCCAGCAGTTCCAGAACAGACGATGTACATAGG 1167

Db 5998 CGTCAGGCACCCATCGGTGGTGATTTCCAGCAGTTTCCAGCAGATGATATACATAGG 5939
QY 1168 GCCTTCAAGAGGGGATTAAGAACTAAAGAACCTCTTAATCATGAGTACTCTTGAGACTGTA 1227
Db 5938 GCCTTCAAGAGGGGATTAAGAACTAAAGAACCTCTTAATCATGAGTACTCTTGAGACTGTG 5879
QY 1228 CGAATATTTCTGACAGACGACGCTTTTGGAAAGGACTAGAGAAACTCTTACCAGGAGCCCGA 1287
Db 5878 AGAATATTTCTGACAGACGACGCTTTTGGAAAGGACTAGAGAAACTCTTACCAGGAGCCCGA 5819
QY 1288 GAGCTGCCTCTCTGAGGAGAGAGCCCGCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAG 1347
Db 5818 GAACTGCCTCTCTGAGGAGAGAGCTCAGAAATGTCACTCGGCTTCTACGAAAGCAGGCTGAA 5759
QY 1348 GAGTCAATACTGAGTGGGAAAAAATTTGAACCTTGACTCCGCTGACTGGCAGAGAAAAATA 1407
Db 5758 GAGTCAACGCTGAATGGGACAAATTTGAACCTTGACTCCGCTGACTGGCAGAGAAAAATA 5699
QY 1408 GATGAGACCTTTGAAAGACTCCAGGAACCTTCAAGAGCCCGCAGGATGAGCTGAGCTCAAG 1467
Db 5698 GATGAAGCTCTTTGAAAGACTCCAGGAACCTTCAAGAGCTCCGATGAACCTGAGCTCAAG 5639
QY 1468 CTGGCCCAAGCTGAGGTGATCAAGGGATCCTGGC 1501
Db 5638 TTGGCCCAAGCTGAGGTGATCAAGGGATCCTGGC 5605

RESULT 4

US-09-427-048A-10/c
; Sequence 10, Application US/09427048A
; Patent No. 6203975
; GENERAL INFORMATION:
; APPLICANT: Trustees of the University of Pennsylvania
; Wilson, James M.
; Fisher, Krishna J.
; Chen, Shu-Jen
; Weitzman, Matthew
; TITLE OF INVENTION: Improved Adenovirus Virus and
; Methods of Use Thereof
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr, P O Box 457
; CITY: Spring House
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/427,048A
; FILING DATE: 21-Oct-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,022
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GNVNPN.008PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9200
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19307 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: CDNA

Db 1454 CACATGGTGGTATTGGATGAACACAGTGGGAGAGTGCCACAGCTCTTCTGGAAGAT 1513
QY 604 CAACTTAAGGTATTGGGAGATCGATGGGCAAAACATCTGTAGATGGACAGAAGACCGCTGG 663
Db 1514 CAGTTACAGAAACTGGGTGAGCGCTGGACAGCTGTATGCCGTGGACTGAAGAACGTTGG 1573
QY 664 GTTCTTTTCAAGACACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAAAGTTT 723
Db 1574 AACAGGTTGCAGAAATCAGTATTCTGTGCAGGAATATTGGAAGAGCAGTGTCTGTG 1633
QY 724 CTTGCTTGGCTTACAGAAAGCTGAAACAACTGCCAATGTCTTACAGGATGCTACCCGTAAG 783
Db 1634 GAGGCTTGGCTACCGGAAAAGGAGAGGCTTTGAATAAAGTTTCAACAGCAACTTTAAA 1693
QY 784 GA 785
Db 1694 GA 1695

RESULT 6
US-09-091-501B-9
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 10320
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (11)..(10312)
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Full length
; OTHER INFORMATION: utrophin construct
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (724)..(758)
; OTHER INFORMATION: Precise residue is left open
US-09-091-501B-9

Query Match 18.1%; Score 271.6; DB 4; Length 10320;
Best Local Similarity 59.2%; Pred. No. 7.5e-72;
Matches 463; Conservative 0; Mismatches 319; Indels 0; Gaps 0;
QY 4 AGTTCATTGATGGAGAGTGAAGTAAACCTGGACCGTTATCAACAGCTTTAGAAGAAGTA 63
Db 914 AGCACCGTCACCTGAAGTGGACATGGATTGGACAGCTACCAGATAGCGCTAGAGGAAGTG 973
QY 64 TTATCGTGGCTTCTTTCTGCTGAGGACACATTGCAAGCACAAGGAGAGATTCTTAATGAT 123
Db 974 CTGACGTGGCTGTCTCCGGGAGGACACCGTTCCAGGAGCAAGATGACATTCTGTATGAT 1033
QY 124 GTGGAAGTGGTGAAGACCACTTTCATCTACTCATGAGGGGTACATGATGGATTGACAGCC 183
Db 1034 GTCCAAGAAAGTCAAGAGAGCAGTTTGCTACCCCATGAACCTTTTATGATGGAGCTGACAGCA 1093
QY 184 CATCAGGGCCGGGTGGTAAATATTCTACAATTGGGAAGTAAGCTGATTGGAAACAGGAAA 243

Db 1094 CACCAGAGCAGCGTGGGAGCGTCTCTGACGGTGGCAACCAGCTGATGACACAAGGGACT 1153
QY 244 TTATCAGAAGATGAAGAAACTGAAGTACAAGACGAGATGAATCTCCTAAATTCAGATGG 303
Db 1154 CTGTACAGAGGAGGAGATTGAGATCCAGGAACAGATGACCTTGCTGAATGCAAGGTGG 1213
QY 304 GAATGCCTCAGGGTAGCTAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGAT 363
Db 1214 GAGGCGCTCCGGGTGAGAGCATGGAGAGGCGTCCCGGTGCACGACGCTCTGATGGAG 1273
QY 364 CTCCAGAATCAGAACTGAAAGAGTTGAATGACTGGCTAACAAAAACAGAAAGAAACA 423
Db 1274 CTGCAGAAAGAACAGCTGCAGCAGCTCTCAAGCTGGGTGGCCCTCACAGAGAGCGCAT 1333
QY 424 AGGAAAATGGAGGAAGAGCCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCCAAGTACA 483
Db 1334 CAGAAGATGGAGAGCCCTCCGCTGGGTGATGACCTCCCTCGCAGAAAGCTGCTTCAA 1393
QY 484 CAACATAAGGTGCTTCAAGAAGATCTAGAACAAAGAACAAAGTCAGGGTCAATTTCTCACT 543
Db 1394 GAACATAAAAGTTTGCAAAATGACCTTGAAGCTGAACAGGTGAAGGTAATTCCTTAACT 1453
QY 544 CACATGGTGGTGTAGTTGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAA 603
Db 1454 CACATGGTGGTATTGTGGATGAAACAGTGGGGAGAGTCCACAGCTCTTCTGGAAGAT 1513
QY 604 CAACTTAAGGTATTGGGAGATCGATGGGCAACATCTGTAGATGGACAGAACGCGCTGG 663
Db 1514 CAGTTACAGAAACTGGGTGAGCGCTGGACAGCTGTATCCGCTGGACTGAAGAACGTTGG 1573
QY 664 GTTCTTTTACAAGACACTCATAGATTACTGCAACAGTTTCCCCCTGGACCTGGAAGAAAGTTT 723
Db 1574 AACAGGTTGCAAGAAATCAGTATTCTGTGGCAGGATATTGGAAGAGCAGTGTCTGTG 1633
QY 724 CTTGCTGGCTTACAGAACTGAAACAACTGCCAATGCTCTACAGGATGCTACCCGTAAG 783
Db 1634 GAGGCTTGGCTCACCGAAAAGGAAGAGGCTTTTGATATAAGTTTCAACCCAGCAACTTAAA 1693
QY 784 GA 785
Db 1694 GA 1695

RESULT 7
US-09-976-594-93
; Sequence 93, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:
; APPLICANT: Furness, Michael
; APPLICANT: Buchbinder, Jenny
; TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
; FILE REFERENCE: PA-0041 US
; CURRENT APPLICATION NUMBER: US/09/976,594
; CURRENT FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/240,409
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 1143
; SOFTWARE: PERL Program
; SEQ ID NO 93
; LENGTH: 3915
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6673549 290344.1
US-09-976-594-93

Query Match 9.1%; Score 136.8; DB 4; Length 3915;
Best Local Similarity 54.6%; Pred. No. 4.8e-31;
Matches 294; Conservative 0; Mismatches 242; Indels 2; Gaps 1;
QY 963 CATGAACCTCAAGTGGAGTGAAGTTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGA 1022

Db 544 CATGAATCTGTGTGGAAATGAATAAAAAAAGTCTCACAACCTCGCGCTCGCCTAGA 603
QY 1023 AGCCAGTCTTGACCAAGTGAAGCGTCTGCACCTTTCTCTGCAGGAATCTTGGTGTGGCT 1082
Db 604 GGCCTTCTCAGACCACAGTGGAAAGCTTCAGCTCCCTCTTCAAGAGATTATTGACTGGCT 663
QY 1083 ACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGGGACTTTCCAGCAGT 1142
Db 664 CAGCCAAAAGGATGAGGAGTTGTTCAGCTCAGTCCCTTACAGGGGATGTGGCCCTGGT 723
QY 1143 TCAGAACGAGAACGATGTACATAGGGCCCTTCAAGAGGGAAATTGAAAACTAAAGAACCTGT 1202
Db 724 GCAACAGGAGAGGAGACACATCGCGCCCTTATGGAAGAGTCAAGTCTCGGGGCCCTTA 783
QY 1203 AATCATGAGTACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCCCTTTGGAAGGACT 1262
Db 784 CATCTATTCTGTGTGAGTCAAGTCAAGGCTTCTGTCCAGCAGCCATTTGAGGAGTT 843
QY 1263 AGAGAACTCTACAGGAGCCAGAGAGCTGCTCCTGAGGAGAGAGCCAGAAATGTCTAC 1322
Db 844 AGAGGAGCCTCATCTGAGAGCAAAAGATACCTCCCCGAAACAGCGGATCCAGAACTCTCAG 903
QY 1323 TCGGCTTCTACGAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTGAACCTGCA 1382
Db 904 CCGCTTGTATGGAAGCAGGCGGACGGTGGCCAGTGAACCTGTGGGAGAACTTGACAGCCG 963
QY 1383 CTCCGCTGACTGCGAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACTTCAAGA 1442
Db 964 CTGTGTGACCAAGCAGCCGTCACATTCAGCGGACTCTGGAGCAGCTCTTGGAGATTCA--G 1021
QY 1443 GGCCACGGATGAGTGGACCTCAAGCTGCCCAAGCTGAGGTGATCAAGGGATCCTGG 1500
Db 1022 GGGCATGGAGGAAGTAAGCACTACTCTGAGCCCAAGCTGAGGGAGTCCGAGCCACTTGG 1079

RESULT 8
US-09-091-501B-5
; Sequence 5, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 200
; TYPE: DNA
; ORGANISM: Rattus sp.
US-09-091-501B-5

Query Match 5.3%; Score 79.4; DB 4; Length 200;
Best Local Similarity 64.3%; Pred. No. 2.2e-14;
Matches 119; Conservative 0; Mismatches 66; Indels 0; Gaps 0;
QY 465 CCTAAACGCCAAGTACAACAACATAAGGTGCTTCAAGAGATCTAGAACAGAACAGT 524
Db 16 CCTGCAAAACCTGCTTGAAGAACATAAAAGTTTGCAAAAGTGACCTCGAAGCTGAGCAGGT 75
QY 525 CAGGGTCAATCTCTCACTCAATGTTGGTGGTAGTTGATGAATCTAGTGGAGATCACGC 584

Db 76 GAAGGTGAATTCCTTAATCATATATGGTGGTGAATTTGGATGAAACAGTGGGAGAGCGC 135
QY 585 AACTGCTGCTTTTGAAGAACAACTTAAGGTATTGGGAGATCGATGGCAACATCTGTAG 644
Db 136 CACAGCTGTTTGAAGATCAGTTACAGAACTGGGTGAGCGCTGGACAGCTGTATGCCG 195
QY 645 ATGGA 649
Db 196 CTGGA 200

RESULT 9
US-09-091-501B-4
; Sequence 4, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 200
; TYPE: DNA
; ORGANISM: Mus sp.
US-09-091-501B-4

Query Match 5.2%; Score 78.6; DB 4; Length 200;
Best Local Similarity 62.4%; Pred. No. 3.8e-14;
Matches 123; Conservative 0; Mismatches 74; Indels 0; Gaps 0;
QY 453 TGATCTTGAAGACCTAAACGCCAAGTACAACAACATAAGGTGCTTCAAGAGATCTAGA 512
Db 4 TGACCTGCCCTCCCTGCAGAAAGCTGCTTCAAGAACATAAAAGTTGCAAAATGACCTGA 63
QY 513 ACAAGAACAGTCAAGGTCAAGTCAATCTCTCACTCACTCACTCACTCACTCACTCACT 572
Db 64 AGCTGAACAGGTGAAGTAAATTCCTTAACCTCACTCACTCACTCACTCACTCACTCACT 123
QY 573 TGGAGATCAAGCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 632
Db 124 TGGGAGAGTCCACAGCTCTTCTGGAAGATCAGTTACAGAACTGGGTGAGCGCTGGAC 183
QY 633 AAACATCTGTAGATGGA 649
Db 184 AGCTGTATGCCGCTGGA 200

RESULT 10
US-09-091-501B-6
; Sequence 6, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8


```

; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 200
; TYPE: DNA
; ORGANISM: Homo sapiens
US-091-501B-6

Query Match      5.2%; Score 78.6; DB 4; Length 200;
Best Local Similarity 62.4%; Pred. No. 3.8e-14;
Matches 123; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

QY 453 TGATCTTGAAGACCTAAACGCCAAGTACAACAACATAGGTGCTTCAAGAAGATCTAGA 512
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 4 TGATGTGAATCTCTACAAAAGCTGCTAGAAGAACATAAAAAGTTGCAAAGTGATCTTGA 63

QY 513 ACAAGAAACAAGTCAGGGTCAATTCTCTCACTCACATGGTGGTGGTAGTTGATGAATCTAG 572
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 64 GGCTGAACACAGGTGAAAGTAAATTCATAACTCACATGGTGGTCAATGTTGATGAAAACAG 123

QY 573 TGGAGATCACGCAACTGCTGCTTTTGGAAAGAACAACTTAAGGTATTGGGAGATCGATGGGC 632
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 124 TGGTGAGAGCGCTACAGCTATCTCTAGAAGACCAGTTACAGAAACTTGGTGAGCGCTGGAC 183

QY 633 AAACATCTGTAGATGGA 649
      ||||| ||||| |||||
Db 184 AGCAGTATGCCGTTGGA 200

```

RESULT 11

US-08-232-463-14/C
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,463
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/935,313
; FILING DATE:
; APPLICATION NUMBER: EP 91 114 300.6
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 30472/114 IMMU
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149

[illegible]

OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (735001)..(750000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (750001)..(765000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (765001)..(780000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (780001)..(795000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (795001)..(810000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (810001)..(825000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (825001)..(840000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (840001)..(855000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (855001)..(870000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (870001)..(885000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (885001)..(900000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (900001)..(915000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature

Query Match 2.9%; Score 44; DB 4; Length 1230025;
Best Local Similarity 53.5%; Pred. No. 0.36;
Matches 92; Conservative 0; Mismatches 80; Indels 0; Gaps 0;

QY 242 AATTATCAGAGATGAAGAACTGAAGTACAAAGAGCAGATGAATCTCTAAATTCAGAT 301
Db 656477 AATTAGAGAGAGAGAGAGAGAGAAATTTGAGGATATCAAAAGACTCAGATACAAAAT 656418
QY 302 GGAATGCCTCAGGGTAGCTAGCATGGAAGAAACAAAGCAATTTACATAGAGTTTAAATGG 361
Db 656417 GGGTTTCATCACTCAAGCTGCTAAATTACATAACGTCACCTAGGCAAGCAATTTATGTTGG 656358
QY 362 ATCTCCAGAAATCAGAAACTGAAGAGTTGAATGACTGGCTAACAAAAACAGA 413
Db 656357 CAATTAGCAGAAAAAACTAAAGCTTCTAAAGAGACCGCGCTGGGAAATAGA 656306

RESULT 15

US-09-107-532A-1186
Sequence 1186, Application US/09107532A
Patent No. 6583275

GENERAL INFORMATION:

APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS

NUMBER OF SEQUENCES: 7310

CORRESPONDENCE ADDRESS:

ADDRESSEE: GENOME THERAPEUTICS CORPORATION

STREET: 100 Beaver Street

CITY: Waltham

STATE: Massachusetts

COUNTRY: USA

ZIP: 02354

COMPUTER READABLE FORM:

LOCATION: (360001)..(375000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (375001)..(390000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (390001)..(405000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (405001)..(420000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (420001)..(435000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (435001)..(450000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (450001)..(465000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (465001)..(480000)
OTHER INFORMATION: n=a or c or g or t
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LOCATION: (480001)..(495000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (495001)..(510000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (510001)..(525000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (525001)..(540000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (540001)..(555000)
OTHER INFORMATION: n=a or c or g or t
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LOCATION: (555001)..(570000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (570001)..(585000)
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LOCATION: (585001)..(600000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (600001)..(615000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (615001)..(630000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
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OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (645001)..(660000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (660001)..(675000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
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OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
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NAME/KEY: misc feature
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; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
;
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
;
; INFORMATION FOR SEQ ID NO: 1186:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1179 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
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; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...1179
; SEQUENCE DESCRIPTION: SEQ ID NO: 1186:
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US-09-107-532A-1186

Query Match      2.9%; Score 43.4; DB 4; Length 1179;
Best Local Similarity 50.7%; Pred. No. 0.0064;
Matches 104; Conservative 0; Mismatches 101; Indels 0; Gaps 0;

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Db      602 AGCAAGAATAAAGATTGTGATCGATCAGACAAAGAAAATGGAGATACGATCGGAGGAA 661

QY      431 TGGAGGAAGAGCCTCTTGGACCTGATCTTGAAGACCTAAACGCCAAGTACAAACATA 490
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Db      662 TTGTAGAAAGTGCTCGTTGGAGGCGTTCCAGCTGGATTAGGAAGCTACGTACAAATGGGACA 721

QY      491 AGGTGCTTCAAGAGATCTAGAACAAAGTCAAGTCAAGGTCAATCTCTCACTCATGG 550
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Db      722 CGAAGCTAGATGCCAAAATCGCACAGCTGTGGTTAGTATCAATGCCTTTAAAGGCGTAG 781

QY      551 TGGTGGTAGTTGATGAATCTAGTGG 575
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Db      782 AATTGGGGTCGGATTCACCTTCTGG 806
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Search completed: September 14, 2004, 02:32:02
Job time : 114 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 14, 2004, 02:18:29 ; Search time 725.333 Seconds
(without alignments)
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Title: US-09-845-416-6_COPY_1500_3000
Perfect score: 1501
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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 3304383 seqs, 2515761380 residues

Total number of hits satisfying chosen parameters: 6608766

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	1501	100.0	4990	10	US-09-845-416-34
4	1283	85.5	5462	16	US-10-149-736-41
5	1209	80.5	3858	10	US-09-845-416-9
6	1209	80.5	4825	10	US-09-845-416-29
7	1209	80.5	4848	10	US-09-845-416-35
8	1209	80.5	5060	10	US-09-845-416-36
9	1183.2	78.8	4182	10	US-09-845-416-2
10	1183.2	78.8	5149	10	US-09-845-416-27
11	1182.6	78.8	8689	16	US-10-149-736-42
12	1182.6	78.8	11058	10	US-09-845-416-1
13	1182.6	78.8	11443	16	US-10-149-736-44
14	1182.6	78.8	12057	16	US-10-149-736-47

15	1182.6	78.8	13957	9	US-09-782-378A-22	Sequence 22, Appl
16	1182.6	78.8	13957	9	US-09-880-107-2284	Sequence 2284, Ap
17	1182.6	78.8	13957	16	US-10-149-736-1	Sequence 1, Appli
18	1182.6	78.8	14069	13	US-10-342-887-434	Sequence 434, App
19	1182.6	78.8	14069	13	US-10-172-118-434	Sequence 434, App
20	1182.6	78.8	14082	13	US-10-342-887-981	Sequence 981, App
21	1182.6	78.8	14082	13	US-10-172-118-981	Sequence 981, App
22	1182.6	78.8	14082	16	US-10-341-434-108	Sequence 108, App
23	1182	78.7	2169	10	US-09-845-416-4	Sequence 4, Appli
24	1182	78.7	3531	10	US-09-845-416-10	Sequence 10, Appl
25	1182	78.7	4498	10	US-09-845-416-30	Sequence 30, Appl
26	1180	78.6	5339	16	US-10-149-736-40	Sequence 40, Appl
27	1004	66.9	13815	16	US-10-149-736-2	Sequence 2, Appli
28	839.8	55.9	3510	10	US-09-845-416-12	Sequence 12, Appl
29	839.8	55.9	4476	10	US-09-845-416-31	Sequence 31, Appl
30	835	55.6	1821	10	US-09-845-416-13	Sequence 13, Appl
31	449.6	30.0	3446	10	US-09-845-416-14	Sequence 14, Appl
32	449.6	30.0	4414	10	US-09-845-416-32	Sequence 32, Appl
33	448.6	29.9	5417	16	US-10-149-736-39	Sequence 39, Appl
34	448	29.8	1434	10	US-09-845-416-15	Sequence 15, Appl
35	408.2	27.2	11096	16	US-10-149-736-4	Sequence 4, Appli
36	408	27.2	10705	12	US-10-152-319A-1598	Sequence 1598, Ap
37	397	26.4	10302	9	US-09-782-378A-23	Sequence 23, Appl
38	397	26.4	10302	16	US-10-149-736-3	Sequence 3, Appli
39	387	25.8	387	16	US-10-149-736-32	Sequence 32, Appl
40	385	25.6	16531	15	US-10-101-510-667	Sequence 667, App
41	348	23.2	348	16	US-10-149-736-31	Sequence 31, Appl
42	324	21.6	324	16	US-10-149-736-33	Sequence 33, Appl
43	322.6	21.5	5106	13	US-10-220-120-157	Sequence 157, App
44	178	11.9	333	16	US-10-149-736-9	Sequence 9, Appli
45	178	11.9	1991	10	US-09-845-416-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1
US-09-845-416-6
; Sequence 6, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 3999
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-6

Query Match	100.0%;	Score 1501;	DB 10;	Length 3999;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1501;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	AGAAGATCTAGAACAAAGCAAGTCAAGGTCAATTCTCTCACTCACATGGTGGTAGT	60	
Db	1500	AGAAGATCTAGAACAAAGCAAGTCAAGGTCAATTCTCTCACTCACATGGTGGTAGT	1559	
QY	61	TGATGAATCTAGTGGAGATCACGCAACTGCTCTTTGGAAGAACAACTTAAGGTATTGGG	120	
Db	1560	TGATGAATCTAGTGGAGATCACGCAACTGCTCTTTGGAAGAACAACTTAAGGTATTGGG	1619	
QY	121	AGATCGATGGGCAAAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAAGACCA	180	
Db	1620	AGATCGATGGGCAAAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAAGACCA	1679	

QY 181 GCTGACCTAGCTCCTGGAGTACCACTATTGGAGCCTCTCCTACTCAGACTGTACTCT 240
Db 1680 GCTGACCTAGCTCCTGGAGTACCACTATTGGAGCCTCTCCTACTCAGACTGTACTCT 1739
QY 241 GGTGACACAACTGTGTACTAAGGAACTGCCATCTCCAACTAGAAATGCCATCTTC 300
Db 1740 GGTGACACAACTGTGTACTAAGGAACTGCCATCTCCAACTAGAAATGCCATCTTC 1799
QY 301 CTTGATGTTGGAGTACCTACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGA 360
Db 1800 CTTGATGTTGGAGTACCTACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGA 1859
QY 361 GTTCTTGCTGGCTTACAGAAGCTGAAACAACCTGCCAATGTCTTACAGATGCTACCCG 420
Db 1860 GTTCTTGCTGGCTTACAGAAGCTGAAACAACCTGCCAATGTCTTACAGATGCTACCCG 1919
QY 421 TAAGGAAAGGCTCCTAGAGACTCCAAAGGAGTAAAGAGCTGTATGAACAATGGCAAGA 480
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QY 481 CCTCAAGGTGAAATTAAGCTCAACAGATGTTTATCAAACTGGTGAACAGCCA 540
Db 1980 CCTCAAGGTGAAATTAAGCTCAACAGATGTTTATCAAACTGGTGAACAGCCA 2039
QY 541 AAAATCCTGAGATCCTGGAAGGTTCCGATGATGAGTCTCTCAAAAGACGTTTGA 600
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QY 721 GCTACAGCTGAAGATGATGAATTAAGCCGAGGACCTATTGAGGCGACTTTCCAGC 780
Db 2220 GCTACAGCTGAAGATGATGAATTAAGCCGAGGACCTATTGAGGCGACTTTCCAGC 2279
QY 781 AGTTGAGAGCAACAGATGTATAGGGCTTCAAGAGGGAATGAAAACTAAAGAAC 840
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QY 841 TGTAATCATGATGACTCTTGAGACTGTACGAATATTCTGACAGAGCAGCCTTTGGAAG 900
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Db 2760 CCAGCTTACCACTTTGGGCATTCAGCTCTCACCGTATAAACCCTCAGCACTCTGGAAGACCT 2819
QY 1321 GAACACCAAGATGGAAGCTTCTGAGGTTGGCCGTCGAGGACCGAGTCAAGGAGCTGCATGA 1380
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QY 1381 AGCCCAACAGGAGCTTTGGTCCAGCATCTCAGCACTTTCTTCCAGCTCTGTCCAGGTTCC 1440
Db 2880 AGCCCAACAGGAGCTTTGGTCCAGCATCTCAGCACTTTCTTCCAGCTCTGTCCAGGTTCC 2939
QY 1441 CTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAAC 1500
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QY 1501 A 1501
Db 3000 A 3000

RESULT 2
US-09-845-416-28
; Sequence 28, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
; LENGTH: 4966
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-28

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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 541 AAAAATCCTGAGATCCCTGGAAGTTCCGATGATGCAGTCTCTGTTTACAAAGACGTTTGA 600
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QY 2797 AAAAATCCTGAGATCCCTGGAAGTTCCGATGATGCAGTCTCTGTTTACAAAGACGTTTGA 2856
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QY 781 AGTTCAGAAAGCAGAACGATGTACATAGGCGCTTCAAGAGGGAAATTGAAAACTAAAGAAC 840
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QY 841 TGTAAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTTGAAGG 900
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QY 3217 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTGAGTGGGAAAAATTGAACCT 3276
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QY 1021 GCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCA 1080
Db |
QY 3277 GCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCA 3336
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QY 3337 AGAGGCCACGGATGAGTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTG 3396
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QY 3457 ACTTCGAGGAGAAATTGCGCTCTGAAAGAGAACGTCAGCCACGTCATGACCTTGCTCG 3516
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QY 3517 CCAGCTTACCACCTTTGGGCATTGAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCT 3576
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QY 3577 GAACACCAGATGGAAGCTTCTGCAGGTGGCGTCGAGGACCGAGTCAGGCAGCTGCATGA 3636
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QY 1381 AGCCACAGGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTCGTCTCCAGGGTCC 1440
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QY 3637 AGCCACAGGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTCGTCTCCAGGGTCC 3696
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QY 1441 CTGGGAGAGGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCACGAGACTCAAAC 1500
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QY 1501 A 1501
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Db 3757 A 3757

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; Sequence 34, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 4990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-34
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Query Match 100.0%; Score 1501; DB 10; Length 4990;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1501; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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|
QY 61 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAGAAACAACCTTAAGGTAATGGG 120
Db |
QY 2341 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAGAAACAACCTTAAGGTAATGGG 2400
|
QY 121 AGATCGATGGGCAACATCTCTAGATGGACAGAGACCGCTGGGTTCTTTTACAGACCA 180
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QY 2401 AGATCGATGGGCAACATCTCTAGATGGACAGAGACCGCTGGGTTCTTTTACAGACCA 2460
|
QY 181 GCCTGACCTAGCTCCTGGACTGACCACTATTGGAGCCCTCTCTACTCAGACTGTTACTCT 240
Db |
QY 2461 GCCTGACCTAGCTCCTGGACTGACCACTATTGGAGCCCTCTCTACTCAGACTGTTACTCT 2520
|
QY 241 GGTGACACAACTGTGGTTACTAAGGAAACTGCCATCTCCAAACTAGAAATGCCATCTTC 300
Db |
QY 2521 GGTGACACAACTGTGGTTACTAAGGAAACTGCCATCTCCAAACTAGAAATGCCATCTTC 2580
|
QY 301 CTTGATGTTGGAGGTACCTACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAA 360
Db |
QY 2581 CTTGATGTTGGAGGTACCTACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAA 2640
|
QY 361 GTTCTTGCTGGCTTACAGAGCTGAAAACAACCTGCCAATGTCTCAGGATGCTACCCG 420
Db |
QY 2641 GTTCTTGCTGGCTTACAGAGCTGAAAACAACCTGCCAATGTCTCAGGATGCTACCCG 2700
|
QY 421 TAAGGAAAGGCTCCTAGAAAGACTCCAAGGGAGTAAAAGAGCTGATGAAACAATGGCAAGA 480
Db |
QY 2701 TAAGGAAAGGCTCCTAGAAAGACTCCAAGGGAGTAAAAGAGCTGATGAAACAATGGCAAGA 2760
|
QY 481 CCTCCAAGGTGAAATTTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAAAACAGCCA 540
Db |
QY 2761 CCTCCAAGGTGAAATTTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAAAACAGCCA 2820
|
QY 541 AAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAGTCTCTGTTTACAAAGACGTTTGA 600
Db |
QY 2821 AAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAGTCTCTGTTTACAAAGACGTTTGA 2880
|
QY 601 TAACATGAACCTCAAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGGTCCCATTT 660
Db |
QY 2881 TAACATGAACCTCAAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGGTCCCATTT 2940
|
QY 1501 A 1501
```


QY 661 GGAAGCCAGTTCTGACCAAGTGAAGCGTCTGCACCTTTCTCTGACGGAACCTTCTGGTGTG 720
Db 2941 GGAAGCCAGTTCTGACCAAGTGAAGCGTCTGCACCTTTCTCTGACGGAACCTTCTGGTGTG 3000
QY 721 GCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGACCTATTGGAGGCGACTTTCCAGC 780
Db 3001 GCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGACCTATTGGAGGCGACTTTCCAGC 3060
QY 781 AGTTTCAAGCAGAACGATGTACATAGGGCCCTTCAAGAGGGAATTTGAAACTAAAGAAC 840
Db 3061 AGTTTCAAGCAGAACGATGTACATAGGGCCCTTCAAGAGGGAATTTGAAACTAAAGAAC 3120
QY 841 TGTAATCATGACTACTCTTGAGACTGTACGAATATTTCTGACAGAGAGCCCTTTGGAAG 900
Db 3121 TGTAATCATGACTACTCTTGAGACTGTACGAATATTTCTGACAGAGAGCCCTTTGGAAG 3180
QY 901 ACTAGAGAACTCTACAGAGAGCCGAGAGAGTGCCTCTCTGAGGAGAGAGCCCGAGAAATGT 960
Db 3181 ACTAGAGAACTCTACAGAGAGCCGAGAGAGTGCCTCTCTGAGGAGAGAGCCCGAGAAATGT 3240
QY 961 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAATAATGAACTTCA 1020
Db 3241 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAATAATGAACTTCA 3300
QY 1021 GCACTCCGCTGACTGGCAGAGAAAATAGATGAGACCTTTGAAAGACTCCAGGAACCTTCA 1080
Db 3301 GCACTCCGCTGACTGGCAGAGAAAATAGATGAGACCTTTGAAAGACTCCAGGAACCTTCA 3360
QY 1081 AGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTG 1140
Db 3361 AGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGATCAAGGGATCCTG 3420
QY 1141 GCAGCCCGTGGCGATCTCCTCATGACTCTCTCAAGATCACTCGAGAAAGTCAAGGC 1200
Db 3421 GCAGCCCGTGGCGATCTCCTCATGACTCTCTCAAGATCACTCGAGAAAGTCAAGGC 3480
QY 1201 ACTTCGAGGAGAAATTCGCCCTCTGAAAGAGAAAGTGAAGCACTGACCTTGTCTG 1260
Db 3481 ACTTCGAGGAGAAATTCGCCCTCTGAAAGAGAAAGTGAAGCACTGACCTTGTCTG 3540
QY 1261 CCAGCTTACCACCTTTGGGCATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCT 1320
Db 3541 CCAGCTTACCACCTTTGGGCATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCT 3600
QY 1321 GAACACAGATGAAGCTTCTGCAAGTGGCGTCCGAGGACCGAGTCAAGGAGCTGCAATGA 1380
Db 3601 GAACACAGATGAAGCTTCTGCAAGTGGCGTCCGAGGACCGAGTCAAGGAGCTGCAATGA 3660
QY 1381 AGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTTCTTCTTCCAGCTCTGTCCAGGGTCC 1440
Db 3661 AGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTTCTTCTTCCAGCTCTGTCCAGGGTCC 3720
QY 1441 CTGGGAGAGAGCCATCTCGCCAAACAAAGTGGCCCTACTATATCAACCCAGAGACTCAAAAC 1500
Db 3721 CTGGGAGAGAGCCATCTCGCCAAACAAAGTGGCCCTACTATATCAACCCAGAGACTCAAAAC 3780
QY 1501 A 1501
Db 3781 A 3781

RESULT 4
US-10-149-736-41
; Sequence 41, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott Q.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126

; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 41
; LENGTH: 5462
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-41
Query Match 85.5%; Score 1283; DB 16; Length 5462;
Best Local Similarity 99.3%; Pred. No. 0;
Matches 1302; Conservative 0; Mismatches 0; Indels 9; Gaps 1;
QY 191 GCTCCTGGACTGACCACTATTGGAGCCCTCTCCTACTCAGACTGTTACTTGGTACACAA 250
Db 1547 GCTCCTGGACTGACCACTATTGGAGCCCTCTCCTACTCAGACTGTTACTTGGTACACAA 1606
QY 251 CCTGTGGTTACTAAGGAAACTGCCATCTCCAAACTAGAAATGCCATCTTCTTGATGTTG 310
Db 1607 CCTGTGGTTACTAAGGAAACTGCCATCTCCAAACTAGAAATGCCATCTTCTTGATGTTG 1666
QY 311 GAGGTACCTACTCATAGATTACTGCAACAGATTCCCTTCCCTGGACCTGGAAAGTTCCTTGGCC 370
Db 1667 GAG-----CATAGATTACTGCAACAGATTCCCTTCCCTGGACCTGGAAAGTTCCTTGGCC 1717
QY 371 TGGCTTACAGAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTACCCGTAAGGAAAG 430
Db 1718 TGGCTTACAGAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTACCCGTAAGGAAAG 1777
QY 431 CTCCTAGAAGACTCCAAAGGAGTAAAGAGCTGATGAAACAAATGGCAAGACCTCCAAGGT 490
Db 1778 CTCCTAGAAGACTCCAAAGGAGTAAAGAGCTGATGAAACAAATGGCAAGACCTCCAAGGT 1837
QY 491 GAAATTGAAGCTCACACAGATGTTTATCAAACTGGATGAAACAGCCAAATAATCCTG 550
Db 1838 GAAATTGAAGCTCACACAGATGTTTATCAAACTGGATGAAACAGCCAAATAATCCTG 1897
QY 551 AGATCCCTGGAAGGTTCCGATGATGAGTCTCTGAGGAACTTCTGAGGAACTTGGTACAGCTG 610
Db 1898 AGATCCCTGGAAGGTTCCGATGATGAGTCTCTGAGGAACTTGGTACAGCTG 1957
QY 611 TTCAAGTGGAGTGAACCTTCGAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGT 670
Db 1958 TTCAAGTGGAGTGAACCTTCGAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGT 2017
QY 671 TCTGACCAAGTGAAGCGTCTGCACCTTTCTCTGAGGAACTTCTGAGGAACTTGGTACAGCTG 730
Db 2018 TCTGACCAAGTGAAGCGTCTGCACCTTTCTCTGAGGAACTTCTGAGGAACTTGGTACAGCTG 2077
QY 731 AAAGATGATGAATTAAGCCGGCAGGCACTTATGGAGGCGACTTCCAGCAGTTCAGAAG 790
Db 2078 AAAGATGATGAATTAAGCCGGCAGGCACTTATGGAGGCGACTTCCAGCAGTTCAGAAG 2137
QY 791 CAGAACGATGTACATAGGGCCCTTCAAGAGGGAATTTGAAACTAAAGAACCTGTATCATG 850
Db 2138 CAGAACGATGTACATAGGGCCCTTCAAGAGGGAATTTGAAACTAAAGAACCTGTATCATG 2197
QY 851 AGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAA 910
Db 2198 AGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAA 2257
QY 911 CTCTACCAAGGAGCCCGAGAGCTGCCTCCTGAGGAGAGAGCCCGAGAAATGTCACTCGGCTT 970
Db 2258 CTCTACCAAGGAGCCCGAGAGCTGCCTCCTGAGGAGAGAGCCCGAGAAATGTCACTCGGCTT 2317
QY 971 CTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAATAATGAACTGCACCTCGCT 1030
Db 2318 CTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAATAATGAACTGCACCTCGCT 2377

QY 1031 GACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACG 1090
Db 2378 GACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACG 2437
QY 1091 GATGAGCTGGACCTCAAGCTGCGCCAAAGTGAAGTGAATCAAGGATCCTGGCAGCCCGTG 1150
Db 2438 GATGAGCTGGACCTCAAGCTGCGCCAAAGTGAAGTGAATCAAGGATCCTGGCAGCCCGTG 2497
QY 1151 GCGGATCTCCTCAATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGA 1210
Db 2498 GCGGATCTCCTCAATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGA 2557
QY 1211 GAAATTGCGCCTCTGAAAGAGAACTGTAGCCACGTCATGACCTTCTGCTGCCAGCTTACC 1270
Db 2558 GAAATTGCGCCTCTGAAAGAGAACTGTAGCCACGTCATGACCTTCTGCTGCCAGCTTACC 2617
QY 1271 ACTTTGGGCATTGAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAACACCAGA 1330
Db 2618 ACTTTGGGCATTGAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAACACCAGA 2677
QY 1331 TGGAAAGCTTCTGCAAGTGGCCGTGAGGACCGAGTCAGGCAGCTGCATGAAGCCACACAGG 1390
Db 2678 TGGAAAGCTTCTGCAAGTGGCCGTGAGGACCGAGTCAGGCAGCTGCATGAAGCCACACAGG 2737
QY 1391 GACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTCGTGCCAGGTCCTGGGAGAGA 1450
Db 2738 GACTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTCGTGCCAGGTCCTGGGAGAGA 2797
QY 1451 GCCATCTCGCCAAACAAAGTGCCTACTATATCAACACCGAGACTCAAAACA 1501
Db 2798 GCCATCTCGCCAAACAAAGTGCCTACTATATCAACACCGAGACTCAAAACA 2848

RESULT 5
US-09-845-416-9
; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9

Query Match 80.5%; Score 1209; DB 10; Length 3858;
Best Local Similarity 90.6%; Pred. No. 0;
Matches 1360; Conservative 0; Mismatches 0; Indels 141; Gaps 1;

QY 1 AGRAGATCTAGAACAAAGAACAGTCAAGGTCAATTCTCTCACTCACATGGTGGTGGTAGT 60
Db 1500 AGRAGATCTAGAACAAAGAACAGTCAAGGTCAATTCTCTCACTCACATGGTGGTGGTAGT 1559
QY 61 TGATGAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAAGAACAACTTAAGTATTTGGG 120
Db 1560 TGATGAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAAGAACAACTTAAGTATTTGGG 1619
QY 121 AGATCGATGGGCAACACATCTGTAGATGGACAGAACCCGCTGGGTTCTTTTACAAGACCA 180
Db 1620 AGATCGATGGGCAACACATCTGTAGATGGACAGAACCCGCTGGGTTCTTTTACAAGAC-- 1677
QY 181 GCCTGACCTAGCTCCTGGACTGACCACTATTGGAGCCCTCTCTACTCAGACTGTTACTCT 240
Db 1678 ----- 1677

QY 241 GGTGACACAACCTGTGGTTACTAAGGAACTGCCATCTCCAAACTAGAAATGCCATCTTC 300
Db 1678 ----- 1677
QY 301 CTTGATGTTGGAGGTACCTACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAAA 360
Db 1678 -----ACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAAA 1718
QY 361 GTTCTTTCCTGGCTTACAGAAAGCTGAAACAACTGCCAATGTCTCTACAGATGCTACCCG 420
Db 1719 GTTCTTTCCTGGCTTACAGAAAGCTGAAACAACTGCCAATGTCTCTACAGATGCTACCCG 1778
QY 421 TAAGGAAAGGCTCCTAGAAAGCTCCAAGGGAGTAAAAAGAGCTGATGAAACAATGGCAAGA 480
Db 1779 TAAGGAAAGGCTCCTAGAAAGCTCCAAGGGAGTAAAAAGAGCTGATGAAACAATGGCAAGA 1838
QY 481 CCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAAAACAGCCA 540
Db 1839 CCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAAAACAGCCA 1898
QY 541 AAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAGTCTCTGTACAAAGACGTTTGA 600
Db 1899 AAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAGTCTCTGTACAAAGACGTTTGA 1958
QY 601 TAACATGAACCTTCAAGTGGAGTGAACCTTCGGAATAAGTCTCTCAACATTAGGTCCCATTT 660
Db 1959 TAACATGAACCTTCAAGTGGAGTGAACCTTCGGAATAAGTCTCTCAACATTAGGTCCCATTT 2018
QY 661 GGAAGCCAGTTCTGACCCAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTG 720
Db 2019 GGAAGCCAGTTCTGACCCAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTG 2078
QY 721 GCTACAGCTGAAAGATGATGAATTAAAGCCGCGCAGGCACCTATTGGAGGCGACTTTCCAGC 780
Db 2079 GCTACAGCTGAAAGATGATGAATTAAAGCCGCGCAGGCACCTATTGGAGGCGACTTTCCAGC 2138
QY 781 AGTTCAGAAAGCAGAACCGATGTACATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGAAC 840
Db 2139 AGTTCAGAAAGCAGAACCGATGTACATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGAAC 2198
QY 841 TGTAAATCATGAGTACTCTTGAGACTGTACGAATATTCTTGACAGAGCAGCCCTTTGGAAGG 900
Db 2199 TGTAAATCATGAGTACTCTTGAGACTGTACGAATATTCTTGACAGAGCAGCCCTTTGGAAGG 2258
QY 901 ACTAGAGAAACTCTACAGAGCCCGCAGAGAGTGCCTCCTGAGGAGAGAGAGAGAGAGATGT 960
Db 2259 ACTAGAGAAACTCTACAGAGCCCGCAGAGAGTGCCTCCTGAGGAGAGAGAGAGAGAGATGT 2318
QY 961 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTGAACCT 1020
Db 2319 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTGAACCT 2378
QY 1021 GCACTCCGCTGACTGGCAGAGAAAAAATAGATGAGACCTTTGAAAGACTCCAGGAACCTCA 1080
Db 2379 GCACTCCGCTGACTGGCAGAGAAAAAATAGATGAGACCTTTGAAAGACTCCAGGAACCTCA 2438
QY 1081 AGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGTGAAGTGAATCAAGGGATCCTG 1140
Db 2439 AGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAAGTGAAGTGAATCAAGGGATCCTG 2498
QY 1141 GCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGC 1200
Db 2499 GCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGC 2558
QY 1201 ACTTCGAGGAGAAATTGCGCCTCTGAAAGAGAACGTTGAGCCACGTCATGACCTTGCTCG 1260
Db 2559 ACTTCGAGGAGAAATTGCGCCTCTGAAAGAGAACGTTGAGCCACGTCATGACCTTGCTCG 2618
QY 1261 CCAGCTTACCACTTTGGGCATTCAGTCTTCCCGTATACCTCAGCACTCTGGAAGACCT 1320
Db 2619 CCAGCTTACCACTTTGGGCATTCAGTCTTCCCGTATACCTCAGCACTCTGGAAGACCT 2678

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QY 1321 GAAACACAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGA 1380
Db 2679 GAAACACAGATGGAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGA 2738
QY 1381 AGCCACAGGGACTTTGGTCCAGCATCTCAGCACTTCTTTCCACGCTGTCTCCAGGGTCC 1440
Db 2739 AGCCACAGGGACTTTGGTCCAGCATCTCAGCACTTCTTTCCACGCTGTCTCCAGGGTCC 2798
QY 1441 CTGGGAGAGGCCATCTGCCCAACAAAGTCCCTACTATATCAACACAGAGACTCAAAAC 1500
Db 2799 CTGGGAGAGGCCATCTGCCCAACAAAGTCCCTACTATATCAACACAGAGACTCAAAAC 2858
QY 1501 A 1501
Db 2859 A 2859

RESULT 6
US-09-845-416-29
; Sequence 29, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-29

Query Match 80.5%; Score 1209; DB 10; Length 4825;
Best Local Similarity 90.6%; Pred. No. 0;
Matches 1360; Conservative 0; Mismatches 0; Indels 141; Gaps 1;

QY 1 AGAAGATCTAGAACAAGAACAAAGTCAGGGTCAATTCTCTCACTCACATGGTGGTGGTAGT 60
Db 2257 AGAAGATCTAGAACAAGAACAAAGTCAGGGTCAATTCTCTCACTCACATGGTGGTGGTAGT 2316
QY 61 TGATGAATCTAGTGGAGATCACGCAACTGCTGTTTGGAGAACAACCTTAAGGTATTGGG 120
Db 2317 TGATGAATCTAGTGGAGATCACGCAACTGCTGTTTGGAGAACAACCTTAAGGTATTGGG 2376
QY 121 AGATCGATGSGCAAAACATCTGTAGATGGACAGAACCGCTGGGTTCTTTTACAAGACCA 180
Db 2377 AGATCGATGSGCAAAACATCTGTAGATGGACAGAACCGCTGGGTTCTTTTACAAGAC-- 2434
QY 181 GCCTGACCTAGCTCCTGGACTGACCACTATTGGAGCCTCTCTACTCAGACTGTTACTCT 240
Db 2435 ----- 2434
QY 241 GGTGACACAACTGTGGTTACTAAGAAACTGCCATCTCCAAACTAGAAATGCCATCTTC 300
Db 2435 ----- 2434
QY 301 CTTGATGTTGGAGGTACCTACTCATAGATTACTGCAACAGATTCCCCCTGGACCTGGAATA 360
Db 2435 -----ACTCATAGATTACTGCAACAGATTCCCCCTGGACCTGGAATA 2475
QY 361 GTTTCTTCCTGGCTTACAGAAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTACCCG 420
Db 2476 GTTTCTTCCTGGCTTACAGAAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTACCCG 2535
QY 421 TAAGGAAGGCTCCTAGAAAGCTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGA 480
Db 2536 TAAGGAAGGCTCCTAGAAAGCTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGA 2595
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QY 481 CCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCAAACTTGATGAAAAACAGCCA 540
Db 2596 CCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCAAACTTGATGAAAAACAGCCA 2655
QY 541 AAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAGTCTCTGTTACAAAGACGTTTGA 600
Db 2656 AAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAGTCTCTGTTACAAAGACGTTTGA 2715
QY 601 TAACATGAACCTTCAAGTGGAGTGAACCTTCGAAAAAAGTCTCTCAACATTAGGTCCCATTT 660
Db 2716 TAACATGAACCTTCAAGTGGAGTGAACCTTCGAAAAAAGTCTCTCAACATTAGGTCCCATTT 2775
QY 661 GGAAGCCAGTCTGACCAAGTGAAGCGTCTGCACCTTTCTCTGCAGAACTTCTGGTGTG 720
Db 2776 GGAAGCCAGTCTGACCAAGTGAAGCGTCTGCACCTTTCTCTGCAGAACTTCTGGTGTG 2835
QY 721 GCTACAGCTGAAAGATGATGAATTAAGCCGCGCAGGCACCTATTGGAGGCGACTTTCAGC 780
Db 2836 GCTACAGCTGAAAGATGATGAATTAAGCCGCGCAGGCACCTATTGGAGGCGACTTTCAGC 2895
QY 781 AGTTCAGAAGCAGAACGATGTACATAGGGCTTCAAGAGGGAATTAAGAACTAAAGAACC 840
Db 2896 AGTTCAGAAGCAGAACGATGTACATAGGGCTTCAAGAGGGAATTAAGAACTAAAGAACC 2955
QY 841 TGTAAATCATGAGTACTCTTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAG 900
Db 2956 TGTAAATCATGAGTACTCTTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTGGAAG 3015
QY 901 ACTAGAGAACTTACCAGGAGCCAGAGAGCTGCCTCCTGAGGAGAGAGAGAGAGAGATGT 960
Db 3016 ACTAGAGAACTTACCAGGAGCCAGAGAGCTGCCTCCTGAGGAGAGAGAGAGAGAGATGT 3075
QY 961 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACCTAGTGGGAAAAATTGAACCT 1020
Db 3076 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACCTAGTGGGAAAAATTGAACCT 3135
QY 1021 GCACCTCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTCA 1080
Db 3136 GCACCTCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTCA 3195
QY 1081 AGAGGCCACGATGAGCTGGAACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTG 1140
Db 3196 AGAGGCCACGATGAGCTGGAACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTG 3255
QY 1141 GCAGCCCTGGGCGATCTCCTCATGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGC 1200
Db 3256 GCAGCCCTGGGCGATCTCCTCATGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGC 3315
QY 1201 ACTTCGAGGAGAAAAATTGCGCCTCTGAAAGAGAACCTGAGCCACCTCAATGACCTTGCTG 1260
Db 3316 ACTTCGAGGAGAAAAATTGCGCCTCTGAAAGAGAACCTGAGCCACCTCAATGACCTTGCTG 3375
QY 1261 CCAGCTTACCACTTTGGGCAATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCT 1320
Db 3376 CCAGCTTACCACTTTGGGCAATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCT 3435
QY 1321 GAACACACAGATGGAAGCTTCTGAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGA 1380
Db 3436 GAACACACAGATGGAAGCTTCTGAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGA 3495
QY 1381 AGCCACACAGGACTTTGGTCCAGCATCTCAGCACTTCTTCCACGCTGTCTCCAGGTCC 1440
Db 3496 AGCCACACAGGACTTTGGTCCAGCATCTCAGCACTTCTTCCACGCTGTCTCCAGGTCC 3555
QY 1441 CTGGGAGAGAGCCATCTCGCCAAACAAAGTCCCTACTATATCAACACAGAGACTCAAAAC 1500
Db 3556 CTGGGAGAGAGCCATCTCGCCAAACAAAGTCCCTACTATATCAACACAGAGACTCAAAAC 3615
QY 1501 A 1501
Db 3616 A 3616
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RESULT 7
US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-35

Query Match 80.5%; Score 1209; DB 10; Length 4848;
Best Local Similarity 90.6%; Pred. No. 0;
Matches 1360; Conservative 0; Mismatches 0; Indels 141; Gaps 1;

QY 1 AGAAGATCTAGAACAAAGAACAAAGTCAGGCTCAATTTCTCACTACATGGTGGTGGT 60
Db 2280 AGAAGATCTAGAACAAAGAACAAAGTCAGGCTCAATTTCTCACTACATGGTGGTGGT 2339

QY 61 TGATGAATCTAGTGGAGATCAAGCAACTGCTGCTTTGGAGAACAACTTAAGGTATTGGG 120
Db 2340 TGATGAATCTAGTGGAGATCAAGCAACTGCTGCTTTGGAGAACAACTTAAGGTATTGGG 2399

QY 121 AGATCGATGGGCAACATCTGTAGATGGACAGACCGCTGGGTTCTTTTACAAGACCA 180
Db 2400 AGATCGATGGGCAACATCTGTAGATGGACAGACCGCTGGGTTCTTTTACAAGAC-- 2457

QY 181 GCCTGACCTAGCTCCTGGACTGACCACTATTGGAGCCTCTCCTACTCAGACTGTTACTCT 240
Db 2458 ----- 2457

QY 241 GGTGACACAACCTGTGGTTACTAAGAACTGCCATCTCCAACTAGAAATGCCATCTTC 300
Db 2458 ----- 2457

QY 301 CTTGATGTTGGAGTACCTACTCATAGATTACTGCAACAGTTCCCTCGACCTGGAAAA 360
Db 2458 -----ACTCATAGATTACTGCAACAGTTCCCTCGACCTGGAAAA 2498

QY 361 GTTCTCTGCTGCTTACAGAAAGCTGAAACAACTGCCAATGTCTTACAGGATGCTACCCG 420
Db 2499 GTTCTCTGCTGCTTACAGAAAGCTGAAACAACTGCCAATGTCTTACAGGATGCTACCCG 2558

QY 421 TAAGGAAAGGCTCCTAGAAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGA 480
Db 2559 TAAGGAAAGGCTCCTAGAAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGA 2618

QY 481 CCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAAAACAGCCA 540
Db 2619 CCTCCAAGGTGAAATTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAAAACAGCCA 2678

QY 541 AAAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGAGTCCCTGTTTACAAAGACGTTTGA 600
Db 2679 AAAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGAGTCCCTGTTTACAAAGACGTTTGA 2738

QY 601 TAACATGAATCTCAAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGGTCCCATTT 660
Db 2739 TAACATGAATCTCAAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGGTCCCATTT 2798

QY 661 GGAAGCCAGTTCTGACCAAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTG 720
Db 2799 GGAAGCCAGTTCTGACCAAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTG 2858

QY 721 GCTACAGCTGAAAGATGATGAATTAAGCCGCGCAGGCACCTATTGGAGCGGACTTTCCAGC 780
Db 2859 GCTACAGCTGAAAGATGATGAATTAAGCCGCGCAGGCACCTATTGGAGCGGACTTTCCAGC 2918

QY 781 AGTTCAGAAAGCAGAACGATGTACATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGAAC 840
Db 2919 AGTTCAGAAAGCAGAACGATGTACATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGAAC 2978

QY 841 TGTAATCATGAGTACTCTTGTAGACTGTACGAAATATTTCTGACAGAGCAGCCTTTTGAAGG 900
Db 2979 TGTAATCATGAGTACTCTTGTAGACTGTACGAAATATTTCTGACAGAGCAGCCTTTTGAAGG 3038

QY 901 ACTAGAGAAACTCTACAGAGAGCCAGAGAGTGCCTCCTGAGGAGAGAGCCAGAAATGT 960
Db 3039 ACTAGAGAAACTCTACAGAGAGCCAGAGAGTGCCTCCTGAGGAGAGAGCCAGAAATGT 3098

QY 961 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAAATTGAACCT 1020
Db 3099 CACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAAATTGAACCT 3158

QY 1021 GCACTCCGCTGACTGCGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGGAACTTCA 1080
Db 3159 GCACTCCGCTGACTGCGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGGAACTTCA 3218

QY 1081 AGAGGCCACGATGAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTG 1140
Db 3219 AGAGGCCACGATGAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTG 3278

QY 1141 GCAGCCCGTGGCGGATCTCTCATTTGACTCTCTCAAGATCACCTCGAGAAAGTCAAGGC 1200
Db 3279 GCAGCCCGTGGCGGATCTCTCATTTGACTCTCTCAAGATCACCTCGAGAAAGTCAAGGC 3338

QY 1201 ACTTCGAGGAGAAATTGGCGCTCTGAAAGAGAACGTGAGCCACGTCATGACCTTGCTCG 1260
Db 3339 ACTTCGAGGAGAAATTGGCGCTCTGAAAGAGAACGTGAGCCACGTCATGACCTTGCTCG 3398

QY 1261 CCAGCTTACCACTTTTGGGATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCT 1320
Db 3399 CCAGCTTACCACTTTTGGGATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCT 3458

QY 1321 GAAACCCAGATGGAAGCTTCTGAGGTGGCGCTGAGGACCGAGTCAGGCAGCTGCATGA 1380
Db 3459 GAAACCCAGATGGAAGCTTCTGAGGTGGCGCTGAGGACCGAGTCAGGCAGCTGCATGA 3518

QY 1381 AGCCACAGGACTTTTGTCCAGCATCTCAGCACTTTTCCACGTCTGTCCAGGTTCC 1440
Db 3519 AGCCACAGGACTTTTGTCCAGCATCTCAGCACTTTTCCACGTCTGTCCAGGTTCC 3578

QY 1441 CTGGAGAGAGCCATCTCGCCAAAAAAGTGCCTACTATATCAACCACGAGACTCAAAC 1500
Db 3579 CTGGAGAGAGCCATCTCGCCAAAAAAGTGCCTACTATATCAACCACGAGACTCAAAC 3638

QY 1501 A 1501
Db 3639 A 3639

RESULT 8
US-09-845-416-36
; Sequence 36, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1

Db 2056 CTTACAGAAAGCTGAAACAACACTGCCAATGTCTCTACAGGATGCTACCCGTAAGGAAAGGCTC 2115

QY 434 CTAGAAGACTCCAAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAA 493

Db 2116 CTAGAAGACTCCAAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAA 2175

QY 494 ATTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAACACAGCCAAAAAATCCTGAGA 553

Db 2176 ATTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAACACAGCCAAAAAATCCTGAGA 2235

QY 554 TCCCTGGAAGGTTCCGATGATGCAGTCTCTTACAAAGACGTTTGGATAACATGAACCTTC 613

Db 2236 TCCCTGGAAGGTTCCGATGATGCAGTCTCTTACAAAGACGTTTGGATAACATGAACCTTC 2295

QY 614 AAGTGGAGTGAACCTTCGAAAAAAGTCTCTCAACATTAGTCCCATTTTGAAGCCAGTTCT 673

Db 2296 AAGTGGAGTGAACCTTCGAAAAAAGTCTCTCAACATTAGTCCCATTTTGAAGCCAGTTCT 2355

QY 674 GACCAGTGGAAAGCGTCTGCACCTTTCTCTGAGGAACCTTCTGGTGTGGCTACAGCTGAAA 733

Db 2356 GACCAGTGGAAAGCGTCTGCACCTTTCTCTGAGGAACCTTCTGGTGTGGCTACAGCTGAAA 2415

QY 734 GATGATGAATTAAGCCGGCAGGCACCTATTGGAGCGGACCTTTCCAGCAGTTTCAGAAAGCAG 793

Db 2416 GATGATGAATTAAGCCGGCAGGCACCTATTGGAGCGGACCTTTCCAGCAGTTTCAGAAAGCAG 2475

QY 794 AACGATGTACATAGGCGCTTCAAGAGGGAAATTGAAAACTAAAGAACTTAAAGAACTTAAATCATGAGT 853

Db 2476 AACGATGTACATAGGCGCTTCAAGAGGGAAATTGAAAACTTAAAGAACTTAAATCATGAGT 2535

QY 854 ACTCTTGAGACTGTACGAATATTTCTGACAGAGAGCGCTTTTGGAAAGGACTAGAGAAACTC 913

Db 2536 ACTCTTGAGACTGTACGAATATTTCTGACAGAGAGCGCTTTTGGAAAGGACTAGAGAAACTC 2595

QY 914 TACCAGGAGCCGAGAGAGCTGCCTCCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTA 973

Db 2596 TACCAGGAGCCGAGAGAGCTGCCTCCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTA 2655

QY 974 CGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAAATTGAACCTTGCCTCCGCTGAC 1033

Db 2656 CGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAAATTGAACCTTGCCTCCGCTGAC 2715

QY 1034 TGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGAT 1093

Db 2716 TGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACGGAT 2775

QY 1094 GAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGSCAGCCCGTGGGC 1153

Db 2776 GAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGSCAGCCCGTGGGC 2835

QY 1154 GATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGGAGAA 1213

Db 2836 GATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGGAGAA 2895

QY 1214 ATTGGCCCTCTGAAAGAGAACGTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCACCT 1273

Db 2896 ATTGGCCCTCTGAAAGAGAACGTGAGCCACGTCATGACCTTGCTCGCCAGCTTACCACCT 2955

QY 1274 TTGGGCATTGAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAAACACAGATGG 1333

Db 2956 TTGGGCATTGAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAAACACAGATGG 3015

QY 1334 AAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACAGGGAC 1393

Db 3016 AAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACAGGGAC 3075

QY 1394 TTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTTGTCCAGGGTCCCTGGGAGAGAGCC 1453

Db 3076 TTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTTGTCCAGGGTCCCTGGGAGAGAGCC 3135

QY 1454 ATCTCGCCAAACAAAGTGGCCCTACTATATCAACCACGAGACTCAAACA 1501

Db 3136 ATCTCGCCAAACAAAGTGGCCCTACTATATCAACCACGAGACTCAAACA 3183

RESULT 10

US-09-845-416-27

; Sequence 27, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE THEREOF

; FILE REFERENCE: DE1142

; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 27

; LENGTH: 5149

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-845-416-27

Query Match 78.8%; Score 1183.2; DB 10; Length 5149;

Best Local Similarity 99.7%; Pred. No. 0;

Matches 1185; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 314 GTACCTACTCATAGATTACTGCAACAGTTCCCTCGGACCTGGAAAAAGTTTCTTGCCTGG 373

Db 2753 GCACAGACTCATAGATTACTGCAACAGTTCCCTCGGACCTGGAAAAAGTTTCTTGCCTGG 2812

QY 374 CTTACAGAAAGCTGAAACAACCTGCCAATGTCTACAGGATGCTACCCGTAAGGAAAGGCTC 433

Db 2813 CTTACAGAAAGCTGAAACAACCTGCCAATGTCTACAGGATGCTACCCGTAAGGAAAGGCTC 2872

QY 434 CTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAA 493

Db 2873 CTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGAA 2932

QY 494 ATTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAAAACAGCCAAAAATCCTGAGA 553

Db 2933 ATTGAAGCTCACACAGATGTTTATCAACAACCTGGATGAAAAACAGCCAAAAATCCTGAGA 2992

QY 554 TCCCTGGAAGGTTCCGATGATGCAGTCTCTTTACAAAGACGTTTGGATAACATGAACCTTC 613

Db 2993 TCCCTGGAAGGTTCCGATGATGCAGTCTCTTTACAAAGACGTTTGGATAACATGAACCTTC 3052

QY 614 AAGTGGAGTGAACTTCGGAAGAAAGTCTCTCAACATTAGGTCCCATTGGAAGCCAGTTCT 673

Db 3053 AAGTGGAGTGAACTTCGGAAGAAAGTCTCTCAACATTAGGTCCCATTGGAAGCCAGTTCT 3112

QY 674 GACCAGTGGAAAGCGTCTGCACCTTTCTCTGACAGGAACTTCTGGTGTGGCTACAGTGAAA 733

Db 3113 GACCAGTGGAAAGCGTCTGCACCTTTCTCTGACAGGAACTTCTGGTGTGGCTACAGTGAAA 3172

QY 734 GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGGCACTTTCCAGCAGTTTCAGAAAGCAG 793

Db 3173 GATGATGAATTAAGCCGGCAGGCACCTATTGGAGGGCACTTTCCAGCAGTTTCAGAAAGCAG 3232

QY 794 AACGATGTACATAGGCGCTTCAAGAGGGAAATTGAAAACTAAAGAACTTGAATCATGAGT 853

Db 3233 AACGATGTACATAGGCGCTTCAAGAGGGAAATTGAAAACTTAAAGAACTTGAATCATGAGT 3292

QY 854 ACTCTTGAGACTGTACGAATATTTCTGACAGAGAGAGCCAGAAATGTCACTCGGCTTCTA 913

Db 3293 ACTCTTGAGACTGTACGAATATTTCTGACAGAGAGAGCCAGCTTTGGAAGGACTAGAGAAACTC 3352

QY 914 TACCAGGAGCCGAGAGAGCTGCCTCCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTA 973

Db 3353 TACCAGGAGCCGAGAGAGCTGCCTCCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTA 3412

QY 974 CGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAAATTGAACCTTGCCTCCGCTGAC 1033

Db 3413 CGAAGCAGGCTGAGAGGCTCAATACTAGTGGGAAAAATTGAACCTGCACCTCCGCTGAC 3472
QY 1034 TGGCAGAGAAAAATAGATGAGACCCCTTGAAGAAGCTCCAGGAACCTCAAGAGGCCACCGAT 1093
Db 3473 TGGCAGAGAAAAATAGATGAGACCCCTTGAAGAAGCTCCAGGAACCTCAAGAGGCCACCGAT 3532
QY 1094 GAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGC 1153
Db 3533 GAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGC 3592
QY 1154 GATCTCCTCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAA 1213
Db 3593 GATCTCCTCATTGACTCTCTCCAAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAA 3652
QY 1214 ATTGCGCCTCTGAAGAGAAAGCTGAGCCACGCTCAATGACCTTGTCCGCGAGCTTACCAC 1273
Db 3653 ATTGCGCCTCTGAAGAGAAAGCTGAGCCACGCTCAATGACCTTGTCCGCGAGCTTACCAC 3712
QY 1274 TTGGGCATTGAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCAAGATG 1333
Db 3713 TTGGGCATTGAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCAAGATG 3772
QY 1334 AAGCTTCTGAGGTCGCGCTCGAGGACCGAGTCAGGCAGCTGCAATGAAGCCACAGGAC 1393
Db 3773 AAGCTTCTGAGGTCGCGCTCGAGGACCGAGTCAGGCAGCTGCAATGAAGCCACAGGAC 3832
QY 1394 TTTGGTCCAGCATCTCAGCACTTTCTTTCCAGCTCTGTCCAGGTCCTTGGGAGAGGCC 1453
Db 3833 TTTGGTCCAGCATCTCAGCACTTTCTTTCCAGCTCTGTCCAGGTCCTTGGGAGAGGCC 3892
QY 1454 ATCTCGCCAAACAAAGTGCCTACTATATCAACCAAGAGACTCAAAACA 1501
Db 3893 ATCTCGCCAAACAAAGTGCCTACTATATCAACCAAGAGACTCAAAACA 3940

RESULT 11

US-10-149-736-42
; Sequence 42, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott Q.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 42
; LENGTH: 8689
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-42

Query Match 78.8%; Score 1182.6; DB 16; Length 8689;
Best Local Similarity. 99.7%; Pred. No. 0;
Matches 1185; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 313 GGTACCTACTCATAGATTACTGCAACAGTTCCCTCGACCTGGAAAGTTTCTTGCCCTG 372
Db 2992 GGAAGAACTCATAGATTACTGCAACAGTTCCCTCGACCTGGAAAGTTTCTTGCCCTG 3051
QY 373 GCTTACAGAAAGCTGAAACAACTGCCAATGCTCTACAGGATGCTACCCGTAAGGAAAGCT 432
Db 3052 GCTTACAGAAAGCTGAAACAACTGCCAATGCTCTACAGGATGCTACCCGTAAGGAAAGCT 3111
QY 433 CCTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAACAATGGCAAGACCTCCAAGGTGA 492

Db 3112 CCTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAACAATGGCAAGACCTCCAAGGTGA 3171
QY 493 AATTGAAGCTCACACAGATGTTTATCACAACTGATGAACAAACAGCAAAATCCTGAG 552
Db 3172 AATTGAAGCTCACACAGATGTTTATCACAACTGATGAACAAACAGCAAAATCCTGAG 3231
QY 553 ATCCCTGGAAGGTTCCGATGATGCAGTCTCTCAAAAGACGTTTGGATAACATGAACCT 612
Db 3232 ATCCCTGGAAGGTTCCGATGATGCAGTCTCTCAAAAGACGTTTGGATAACATGAACCT 3291
QY 613 CAAGTGGAGTGAACCTCGAAAAAGTCTCTCAACATTAGGTCCTTGGAGCCAGTTC 672
Db 3292 CAAGTGGAGTGAACCTCGAAAAAGTCTCTCAACATTAGGTCCTTGGAGCCAGTTC 3351
QY 673 TGACCAGTGGAAAGCTCTGCACCTTTCTTCAGAGAACCTTCTGGTGTGGCTACAGCTGA 732
Db 3352 TGACCAGTGGAAAGCTCTGCACCTTTCTTCAGAGAACCTTCTGGTGTGGCTACAGCTGA 3411
QY 733 AGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTTCAAGCA 792
Db 3412 AGATGATGAATTAAGCCGGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTTCAAGCA 3471
QY 793 GAACGATGTACATAGGGCCTTCAAGAGGGAATTAAGAACTAAAGAACCTTGTAAATCATGAG 852
Db 3472 GAACGATGTACATAGGGCCTTCAAGAGGGAATTAAGAACTAAAGAACCTTGTAAATCATGAG 3531
QY 853 TACTCTTGAGACTGTACGAATATTTCTGACAGAGAGAGCCCAAGAACTGTACCTGGCTTCT 912
Db 3532 TACTCTTGAGACTGTACGAATATTTCTGACAGAGAGAGCCCAAGAACTGTACCTGGCTTCT 3591
QY 913 CTACCAGGAGCCAGAGAGAGCTGCCTCCTGAGGAGAGAGCCCAAGAACTGTACCTGGCTTCT 972
Db 3592 CTACCAGGAGCCAGAGAGAGCTGCCTCCTGAGGAGAGAGCCCAAGAACTGTACCTGGCTTCT 3651
QY 973 ACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTAACCTGCACCTCCGCTGA 1032
Db 3652 ACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTAACCTGCACCTCCGCTGA 3711
QY 1033 CTGGCAGAGAAAAATAGATGAGACCTTTGAAAAGACTCCAGGAACCTCAAGAGGCCACGGA 1092
Db 3712 CTGGCAGAGAAAAATAGATGAGACCTTTGAAAAGACTCCAGGAACCTCAAGAGGCCACGGA 3771
QY 1093 TGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCTTGGCAGCCCGTGG 1152
Db 3772 TGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCTTGGCAGCCCGTGG 3831
QY 1153 CGATCTCCTCATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGGAGA 1212
Db 3832 CGATCTCCTCATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGGAGA 3891
QY 1213 AATTGGCCCTCTGAAAAGAGAACGTCAGCCACGTCATGACCTTGTCTGCCAGCTTACCAC 1272
Db 3892 AATTGGCCCTCTGAAAAGAGAACGTCAGCCACGTCATGACCTTGTCTGCCAGCTTACCAC 3951
QY 1273 TTTGGGCATTGAGCTCTCACCCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCAAGATG 1332
Db 3952 TTTGGGCATTGAGCTCTCACCCGTATTAACCTCAGCACTCTGGAAGACCTGAACACCAAGATG 4011
QY 1333 GAAGCTTCTGAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACAGGGA 1392
Db 4012 GAAGCTTCTGAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACAGGGA 4071
QY 1393 CTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTCGTCTCCAGGTCCTTGGGAGAGAGC 1452
Db 4072 CTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTCGTCTCCAGGTCCTTGGGAGAGAGC 4131
QY 1453 CATCTGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACA 1501
Db 4132 CATCTGCCAAACAAAGTGCCCTACTATATCAACCAAGAGACTCAAAACA 4180

US-09-845-416-1
; Sequence 1, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 11058
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-1

Query Match 78.8%; Score 1182.6; DB 10; Length 11058;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1185; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 313 GGTACCTACTCATAGATTACTGCAACAGTCCCTGGACCTGGAACAAAGTTTCTTGGCCTG 372
Db 8052 GGAAGAAACTCATAGATTACTGCAACAGTCCCTGGACCTGGAACAAAGTTTCTTGGCCTG 8111

QY 373 GCTTACAGAGCTGAAACAACTGCCAATGTCCTACAGGATGCTACCGTAAAGAAAGGCT 432
Db 8112 GCTTACAGAGCTGAAACAACTGCCAATGTCCTACAGGATGCTACCGTAAAGAAAGGCT 8171

QY 433 CCTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGA 492
Db 8172 CCTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAGGTGA 8231

QY 493 AATTGAAGCTCACACAGATGTTTATCACAACTGGATGAAACAGCCAAAATAATCCTGAG 552
Db 8232 AATTGAAGCTCACACAGATGTTTATCACAACTGGATGAAACAGCCAAAATAATCCTGAG 8291

QY 553 ATCCCTGGAAGTCCGATGATGCAGTCCCTGTACAAAGACGTTTGGATAACATGAACCT 612
Db 8292 ATCCCTGGAAGTCCGATGATGCAGTCCCTGTACAAAGACGTTTGGATAACATGAACCT 8351

QY 613 CAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAGCCAGTTC 672
Db 8352 CAAGTGGAGTGAACCTCGGAAAAAGTCTCTCAACATTAGGTCCCATTTGGAAGCCAGTTC 8411

QY 673 TGACCAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAA 732
Db 8412 TGACCAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAA 8471

QY 733 AGATGATGAATTAAAGCCGGCAGGCACCTATTTGGAGGCGACTTTCCAGCAGTTTCAGAAGCA 792
Db 8472 AGATGATGAATTAAAGCCGGCAGGCACCTATTTGGAGGCGACTTTCCAGCAGTTTCAGAAGCA 8531

QY 793 GAACGATGTACATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTAATCATGAG 852
Db 8532 GAACGATGTACATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGAACCTGTAATCATGAG 8591

QY 853 TACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTTGGAAAGGACTAGAGAAACT 912
Db 8592 TACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTTGGAAAGGACTAGAGAAACT 8651

QY 913 CTACCAGGAGCCACAGAGCTGCCTCTCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCT 972
Db 8652 CTACCAGGAGCCACAGAGCTGCCTCTCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCT 8711

QY 973 ACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTTGAACCTGCACCTCCGCTGA 1032
Db 8712 ACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTTGAACCTGCACCTCCGCTGA 8771

QY 1033 CTGGCAGAGAAAAATAGATGAGACCCCTTGAAGAACTCCAGGAACCTTCAAGAGGCCACCGA 1092

Db 8772 CTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACCTTCAAGAGGCCACCGA 8831
QY 1093 TGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGTGATCAAGGGATCCTGGAGCCCGTGGG 1152
Db 8832 TGAGCTGGACCTCAAGCTGCGCCAAAGCTGAGTGATCAAGGGATCCTGGAGCCCGTGGG 8891
QY 1153 CGATCTCCTCATTTGACTCTCTCCAAGATCACCTCCAGAAAGTCAAGGCACCTTCAGGAGA 1212
Db 8892 CGATCTCCTCATTTGACTCTCTCCAAGATCACCTCCAGAAAGTCAAGGCACCTTCAGGAGA 8951
QY 1213 AATTGCGCCTCTGAAAGAGAACTGAGCCACGTGAGCCACGTCAATGACCTTGCTCGCCAGTTACCAC 1272
Db 8952 AATTGCGCCTCTGAAAGAGAACTGAGCCACGTGAGCCACGTCAATGACCTTGCTCGCCAGTTACCAC 9011
QY 1273 TTTGGGCATTTCAGCTCTCACCGTATAACCTTCAGCACTCTGGAAGACCTGAACACACAGATG 1332
Db 9012 TTTGGGCATTTCAGCTCTCACCGTATAACCTTCAGCACTCTGGAAGACCTGAACACACAGATG 9071
QY 1333 GAAGCTTCTGCAGGTGGCGCTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACACAGGGA 1392
Db 9072 GAAGCTTCTGCAGGTGGCGCTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACACAGGGA 9131
QY 1393 CTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTCTGTCCAGGGTCCCTGGGAGAGAGC 1452
Db 9132 CTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTCTGTCCAGGGTCCCTGGGAGAGAGC 9191
QY 1453 CATCTCGCCAAACAAAGTCCCTACTATATCAACACAGAGACTCAAAACA 1501
Db 9192 CATCTCGCCAAACAAAGTCCCTACTATATCAACACAGAGACTCAAAACA 9240

RESULT 13
US-10-149-736-44
; Sequence 44, Application US/10149736
; Publication No. US20030216332A1
; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott Q.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 44
; LENGTH: 11443
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-149-736-44

Query Match 78.8%; Score 1182.6; DB 16; Length 11443;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1185; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 313 GGTACCTACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAAAGTTTCTTGCCTG 372
Db 5746 GGAAGAAACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAAAGTTTCTTGCCTG 5805

QY 373 GCTTACAGAGCTGAAACAACTGCCAATGTCTTACAGGATGCTACCCGTAAGGAAAGGCT 432
Db 5806 GCTTACAGAGCTGAAACAACTGCCAATGTCTTACAGGATGCTACCCGTAAGGAAAGGCT 5865

QY 433 CCTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTTCAAGGTGA 492
Db 5866 CCTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTTCAAGGTGA 5925

QY 493 AATTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACACGCCAAATAATCCTGAG 552
Db 5926 AATTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACACGCCAAATAATCCTGAG 5985
QY 553 ATCCCTGGAAGGTTCCGATGATGCAGTCTCTGTACAAAGACGTTTGGATAACATGAACCTT 612
Db 5986 ATCCCTGGAAGGTTCCGATGATGCAGTCTCTGTACAAAGACGTTTGGATAACATGAACCTT 6045
QY 613 CAAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGGTCCTCATTTGGAAGCCAGTTC 672
Db 6046 CAAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGGTCCTCATTTGGAAGCCAGTTC 6105
QY 673 TGACCAGTGGAAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAA 732
Db 6106 TGACCAGTGGAAAGCGTCTGCACCTTTCTCTGCAGGAACCTTCTGGTGTGGCTACAGCTGAA 6165
QY 733 AGATGATGAATTAAGCCGGCAGGCACCTTATTGGAGGCGACTTTCCAGCAGTTTCAGAAGCA 792
Db 6166 AGATGATGAATTAAGCCGGCAGGCACCTTATTGGAGGCGACTTTCCAGCAGTTTCAGAAGCA 6225
QY 793 GAACGATGTACATAGGGCCTTCAAGAGGGAATTTGAAAACTTAAAGAACCTGTATATCATGAG 852
Db 6226 GAACGATGTACATAGGGCCTTCAAGAGGGAATTTGAAAACTTAAAGAACCTGTATATCATGAG 6285
QY 853 TACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACT 912
Db 6286 TACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACT 6345
QY 913 CTACCAGGAGCCAGAGAGCTGCCTCTGAGGAGAGAGCCCAAGATGTCACTCGGCTTCT 972
Db 6346 CTACCAGGAGCCAGAGAGCTGCCTCTGAGGAGAGAGCCCAAGATGTCACTCGGCTTCT 6405
QY 973 ACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTGAACCTTCAAGAGGCGCCACGGA 1032
Db 6406 ACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTGAACCTTCAAGAGGCGCCACGGA 6465
QY 1033 CTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGGAACCTCAAGAGGCGCCACGGA 1092
Db 6466 CTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGGAACCTCAAGAGGCGCCACGGA 6525
QY 1093 TGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGG 1152
Db 6526 TGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGG 6585
QY 1153 CGATCTCCTCATTTACTCTCTCCAAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGGAGA 1212
Db 6586 CGATCTCCTCATTTACTCTCTCCAAAGATCACCTCGAGAAAGTCAAGGCACTTCGAGGAGA 6645
QY 1213 AATTGGCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCAC 1272
Db 6646 AATTGGCCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGCTCGCCAGCTTACCAC 6705
QY 1273 TTTGGGCAATTCAGCTCTCACCGTATAAACCCTCAGCACTCTGGAAGACCTGAACACCCAGATG 1332
Db 6706 TTTGGGCAATTCAGCTCTCACCGTATAAACCCTCAGCACTCTGGAAGACCTGAACACCCAGATG 6765
QY 1333 GAAGCTTCTGAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGATGAAGCCCAACAGGA 1392
Db 6766 GAAGCTTCTGAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGATGAAGCCCAACAGGA 6825
QY 1393 CTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTCTGTCCAGGCTCCCTGGGAGAGAC 1452
Db 6826 CTTTGGTCCAGCATCTCAGCACTTTCTTTCCACGTCTGTCCAGGCTCCCTGGGAGAGAC 6885
QY 1453 CATCTCGCCAAACAAAGTGCCCTACTATPATCAACCAACGAGACTCAAAACA 1501
Db 6886 CATCTCGCCAAACAAAGTGCCCTACTATPATCAACCAACGAGACTCAAAACA 6934

RESULT 14

US-10-149-736-47

; Sequence 47, Application US/10149736

; Publication No. US20030216332A1

; GENERAL INFORMATION:
; APPLICANT: Chamberlain, Jeffrey S.
; APPLICANT: Harper, Scott Q.
; TITLE OF INVENTION: Mini-Dystrophin Nucleic Acids and Peptide Sequences
; FILE REFERENCE: UM-06968
; CURRENT APPLICATION NUMBER: US/10/149,736
; CURRENT FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/31126
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/238,848
; PRIOR FILING DATE: 2000-10-06
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 47
; LENGTH: 12057
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
; US-10-149-736-47

Query Match 78.8%; Score 1182.6; DB 16; Length 12057;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1185; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 313 GGTACCTACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAAAGTTTCTTGCCTG 372
Db 8260 GGAAGAACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAAAGTTTCTTGCCTG 8319
QY 373 GCTTACAGAACTGAAACAACTGCCAATGTCTTACAGGATGCTACCCGTAAGGAAAGGCT 432
Db 8320 GCTTACAGAACTGAAACAACTGCCAATGTCTTACAGGATGCTACCCGTAAGGAAAGGCT 8379
QY 433 CCTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGSCAAGACCTCCCAAGGTGA 492
Db 8380 CCTAGAAGACTCCAAGGGAGTAAAGAGCTGATGAAACAATGSCAAGACCTCCCAAGGTGA 8439
QY 493 AATTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACACAGCCAAATAATCCTGAG 552
Db 8440 AATTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACACAGCCAAATAATCCTGAG 8499
QY 553 ATCCCTGGAAAGGTTCCGATGATGCAGTCTGTTCACAAAGACGTTTGGATAACATGAACCTT 612
Db 8500 ATCCCTGGAAAGGTTCCGATGATGCAGTCTGTTCACAAAGACGTTTGGATAACATGAACCTT 8559
QY 613 CAAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTC 672
Db 8560 CAAGTGGAGTGAACCTTCGGAAAAAGTCTCTCAACATTAGTCCCATTTGGAAGCCAGTTC 8619
QY 673 TGACCAGTGGAAAGCGTCTGCACCTTTCTCTGACGGAACCTTCTGGTGTGGCTACAGCTGAA 732
Db 8620 TGACCAGTGGAAAGCGTCTGCACCTTTCTCTGACGGAACCTTCTGGTGTGGCTACAGCTGAA 8679
QY 733 AGATGATGAATTAAGCCGGCAGGCACCTTATTGGAGGCGACTTTCCAGCAGTTTCAGAAGCA 792
Db 8680 AGATGATGAATTAAGCCGGCAGGCACCTTATTGGAGGCGACTTTCCAGCAGTTTCAGAAGCA 8739
QY 793 GAACGATGTACATAGGGCCTTCAAGAGGGAATTTGAAAACTTAAAGAACCTGTATATCATGAG 852
Db 8740 GAACGATGTACATAGGGCCTTCAAGAGGGAATTTGAAAACTTAAAGAACCTGTATATCATGAG 8799
QY 853 TACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACT 912
Db 8800 TACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCCTTTGGAAGGACTAGAGAACT 8859
QY 913 CTACCAGGAGCCAGAGAGCTGCCTCTGAGGAGAGAGCCCAAGATGTCACTCGGCTTCT 972
Db 8860 CTACCAGGAGCCAGAGAGCTGCCTCTGAGGAGAGAGCCCAAGATGTCACTCGGCTTCT 8919
QY 973 ACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTGAACCTTCCGCTGA 1032
Db 8920 ACGAAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTGAACCTTCCGCTGA 8979

QY 1033 CTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACTTCAAGAGGCCACCGGA 1092
Db 8980 CTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGGAACTTCAAGAGGCCACCGGA 9039
QY 1093 TGAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGG 1152
Db 9040 TGAGCTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCGTGGG 9099
QY 1153 CGATCTCCTCAATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGA 1212
Db 9100 CGATCTCCTCAATTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGA 9159
QY 1213 AATTGCGCCTCTGAAAGAGAAACGTCGAGCCACGTCATGACCTTGCTCGCCAGCTTACCAC 1272
Db 9160 AATTGCGCCTCTGAAAGAGAAACGTCGAGCCACGTCATGACCTTGCTCGCCAGCTTACCAC 9219
QY 1273 TTTGGGCATTGAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAAACACAGATG 1332
Db 9220 TTTGGGCATTGAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAAACACAGATG 9279
QY 1333 GAAGCTTCTGCAAGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACACAGGA 1392
Db 9280 GAAGCTTCTGCAAGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACACAGGA 9339
QY 1393 CTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTCCTGTCAGGGTCCCTGGGAGAGAGC 1452
Db 9340 CTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTCCTGTCAGGGTCCCTGGGAGAGAGC 9399
QY 1453 CATCTCGCCAAACAAAGTGCCTTACTATATCAACACCGAGACTCAAAACA 1501
Db 9400 CATCTCGCCAAACAAAGTGCCTTACTATATCAACACCGAGACTCAAAACA 9448

RESULT 15

US-09-782-378A-22

; Sequence 22, Application US/09782378A

; Patent No. US20020102731A1

; GENERAL INFORMATION:

; APPLICANT: Hearing, Patrick

; APPLICANT: Bahou, Wadie

; APPLICANT: Sandalon, Ziv

; APPLICANT: Gnatenko, Dmitri

; TITLE OF INVENTION: Adenoviral Vectors

; FILE REFERENCE: STONYB-04970

; CURRENT APPLICATION NUMBER: US/09/782,378A

; CURRENT FILING DATE: 2001-02-12

; PRIOR APPLICATION NUMBER: 60/237,747

; PRIOR FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 27

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 22

; LENGTH: 13957

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-782-378A-22

Query Match 78.8%; Score 1182.6; DB 9; Length 13957;

Best Local Similarity 99.7%; Pred. No. 0;

Matches 1185; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 313 GGTACCTACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAAAAGTTTCTTGCCTG 372
Db 8260 GGAAGAACTCATAGATTACTGCAACAGTTCCCCCTGGACCTGGAAAAAGTTTCTTGCCTG 8319

QY 373 GCTTACAGAAGCTGAAACAACTGCCAATGTCTTACAGGATGCTACCCCGTAAGGAAAGGCT 432
Db 8320 GCTTACAGAAGCTGAAACAACTGCCAATGTCTTACAGGATGCTACCCCGTAAGGAAAGGCT 8379

QY 433 CCTAGAAAGACTCCAAGGAGTAAAGAGCTGATGAAACAAATGGCAAGACTCTCAAGGTGA 492
Db 8380 CCTAGAAAGACTCCAAGGAGTAAAGAGCTGATGAAACAAATGGCAAGACTCTCAAGGTGA 8439

QY 493 AATTGAAGCTCACACAGATGTTTATATCAACCTGGATGAAACACGCCAAAAAATCCTGAG 552

Db 8440 AATTGAAGCTCACACAGATGTTTATCACAACCTGGATGAAACACGCCAAAAAATCCTGAG 8499
QY 553 ATCCCTGGAAGTTCCGATGATGCGAGTCCTGTACAAAGACGTTTGGATAACATGAACCTT 612
Db 8500 ATCCCTGGAAGTTCCGATGATGCGAGTCCTGTACAAAGACGTTTGGATAACATGAACCTT 8559
QY 613 CAAGTGGAGTGAACCTTCGAAAAAAGTCTCTCAACATTAGGTCCCATTTTGAAGCCAGTTT 672
Db 8560 CAAGTGGAGTGAACCTTCGAAAAAAGTCTCTCAACATTAGGTCCCATTTTGAAGCCAGTTT 8619
QY 673 TGACCAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACTTCTGGTGTGGCTACAGCTGAA 732
Db 8620 TGACCAGTGAAGCGTCTGCACCTTTCTCTGCAGGAACTTCTGGTGTGGCTACAGCTGAA 8679
QY 733 AGATGATGAATTAAAGCCGCGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTCAGAAGCA 792
Db 8680 AGATGATGAATTAAAGCCGCGCAGGCACCTATTGGAGGCGACTTTCCAGCAGTTCAGAAGCA 8739
QY 793 GAACGATGTACATAGGCGCTTCAAGAGGGAATTGAAAAACTAAAGAACCTGTAAATCATGAG 852
Db 8740 GAACGATGTACATAGGCGCTTCAAGAGGGAATTGAAAAACTAAAGAACCTGTAAATCATGAG 8799
QY 853 TACTCTTGAGACTGTACGAATATTCTTGACAGAGCAGCCCTTTTGGAAAGGACTAGAGAAACT 912
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QY 913 CTACCAGGAGCCCCAGAGAGCTGCCTCCTCTGAGGAGAGAGCCCCAGAAATGTCACTCGGCTTCT 972
Db 8860 CTACCAGGAGCCCCAGAGAGCTGCCTCCTCTGAGGAGAGAGCCCCAGAAATGTCACTCGGCTTCT 8919
QY 973 ACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAAATTGAACCTGCACCTCCGCTGA 1032
Db 8920 ACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAAATTGAACCTGCACCTCCGCTGA 8979
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Db 9040 TGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCCTGGGAGCCCGTGGG 9099
QY 1153 CGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGA 1212
Db 9100 CGATCTCCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACCTTCGAGGAGA 9159
QY 1213 AATTGCGCCTCTGAAAGAGAAACGTCAGCCACGTCACCTGCTCGCCAGCTTACCAC 1272
Db 9160 AATTGCGCCTCTGAAAGAGAAACGTCAGCCACGTCACCTGCTCGCCAGCTTACCAC 9219
QY 1273 TTTGGGCATTGAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAAACACAGATG 1332
Db 9220 TTTGGGCATTGAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTGAAACACAGATG 9279
QY 1333 GAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACAGGGA 1392
Db 9280 GAAGCTTCTGCAGGTGGCCGTCGAGGACCGAGTCAGGCAGCTGCATGAAGCCACAGGGA 9339
QY 1393 CTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTCCTGTCCAGGGTCCCTGGGAGAGAGC 1452
Db 9340 CTTTGGTCCAGCATCTCAGCACTTTCTTCCACGTCCTGTCCAGGGTCCCTGGGAGAGAGC 9399
QY 1453 CATCTCGCCAAACAAAGTGCCTTACTATATCAACACCGAGACTCAAAACA 1501
Db 9400 CATCTCGCCAAACAAAGTGCCTTACTATATCAACACCGAGACTCAAAACA 9448

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Job time : 733.333 secs

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